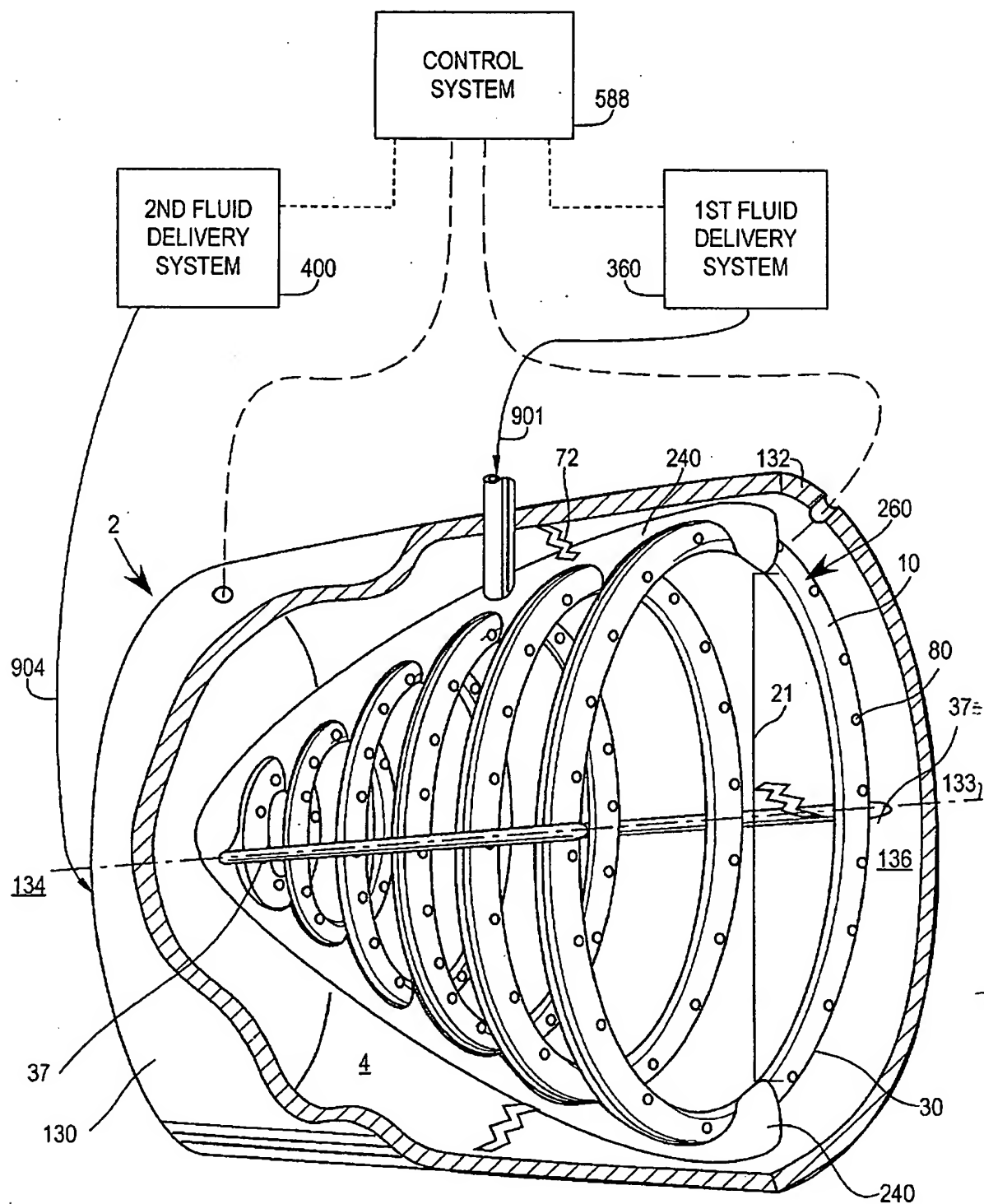


Method and Apparatus for Mixing Fluids
Hagen et al.
Atty Docket: VAST.001CP2

Fig. 1

1/28



Method and Apparatus for Mixing Fluids
Hagen et al.
Atty Docket: VAST.001CP2

Fig. 2

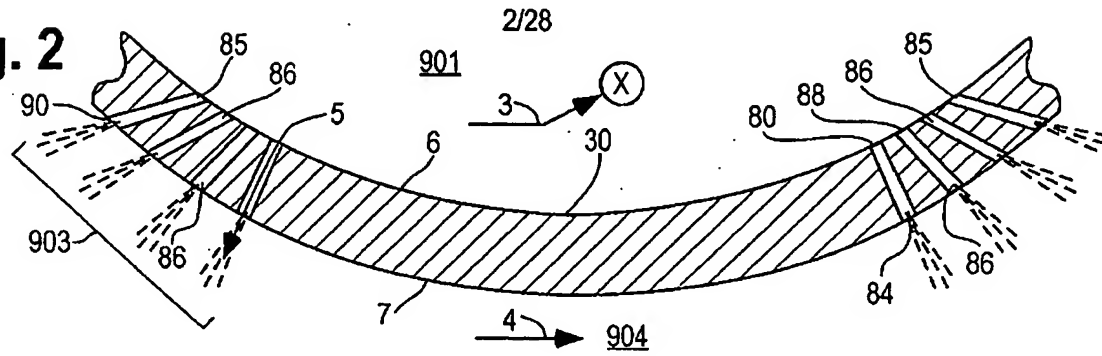


Fig. 3

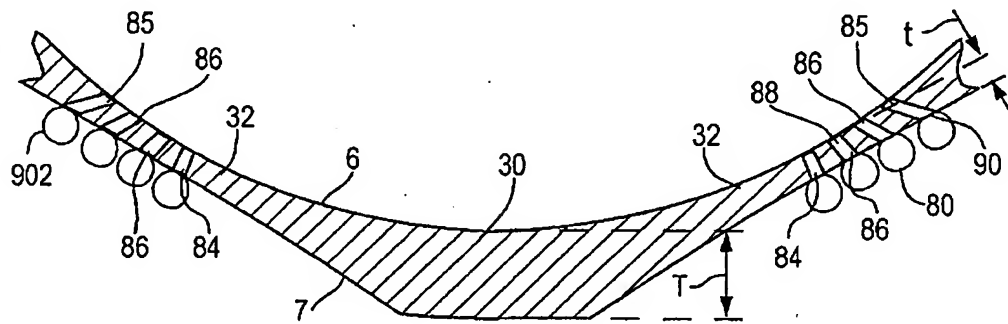


Fig. 4

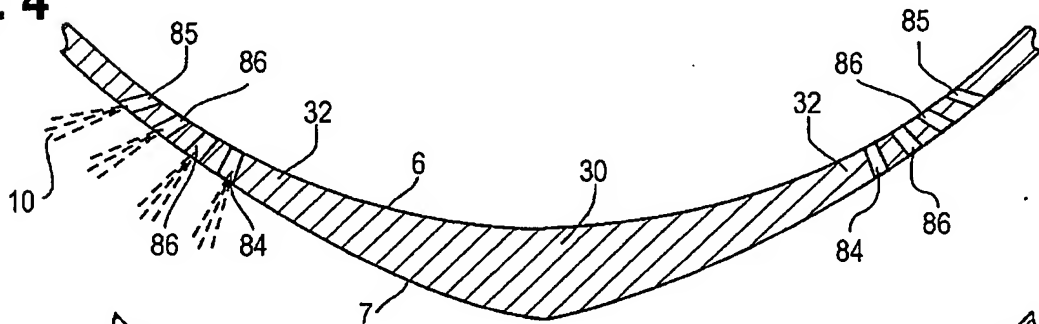


Fig. 5

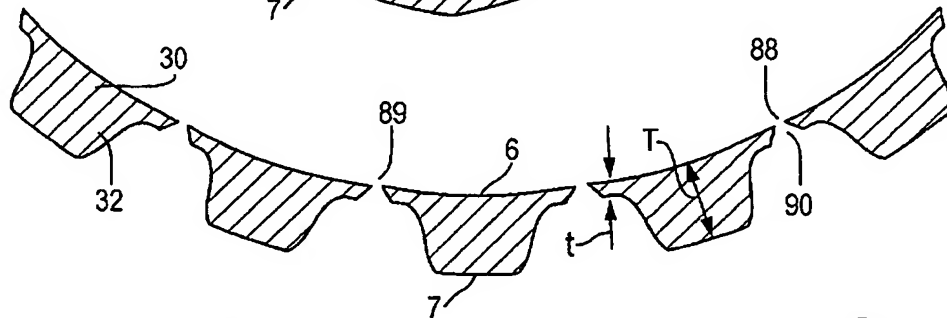
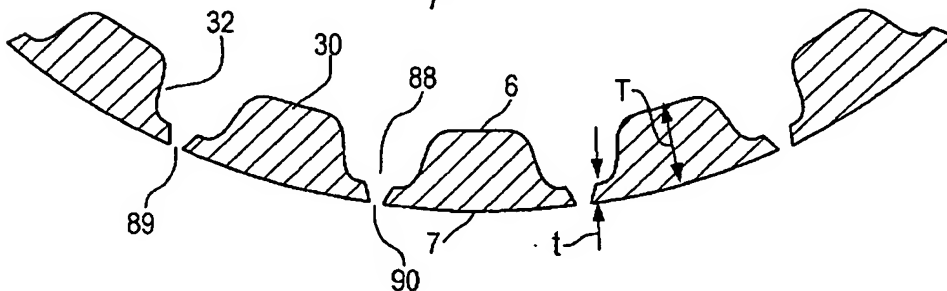
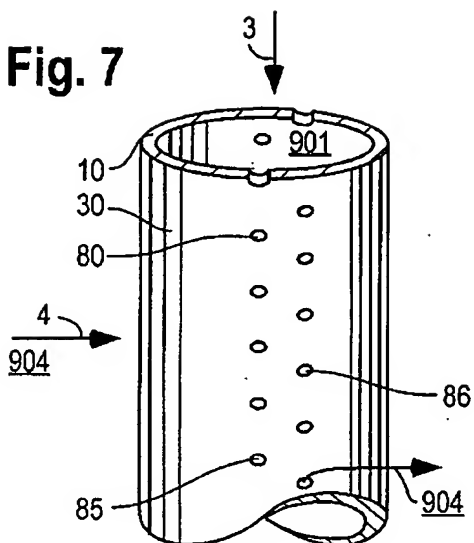
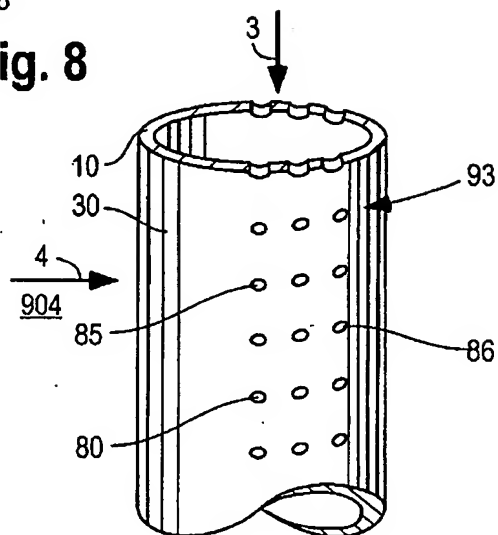
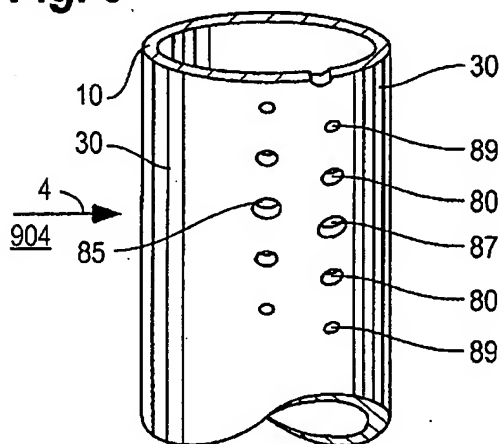
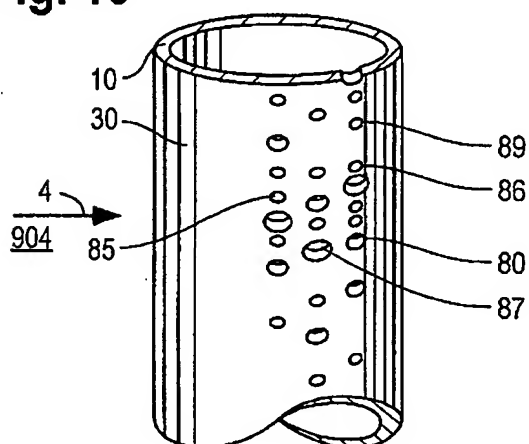
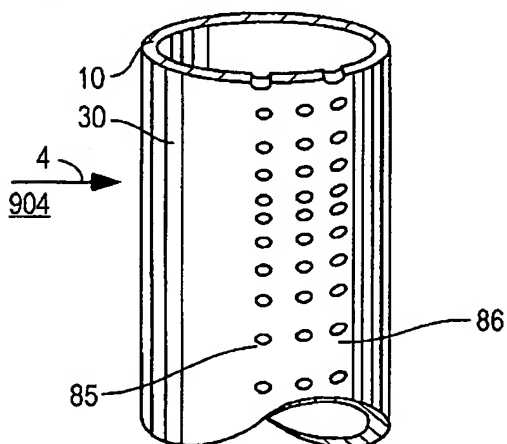
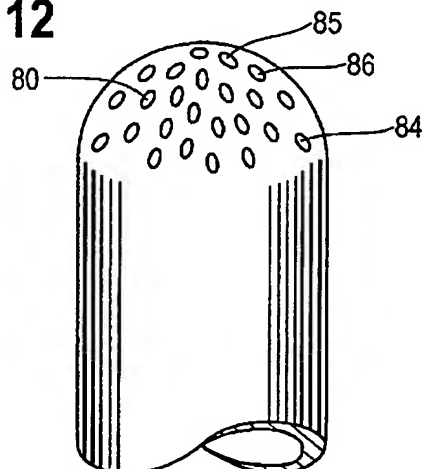


Fig. 6

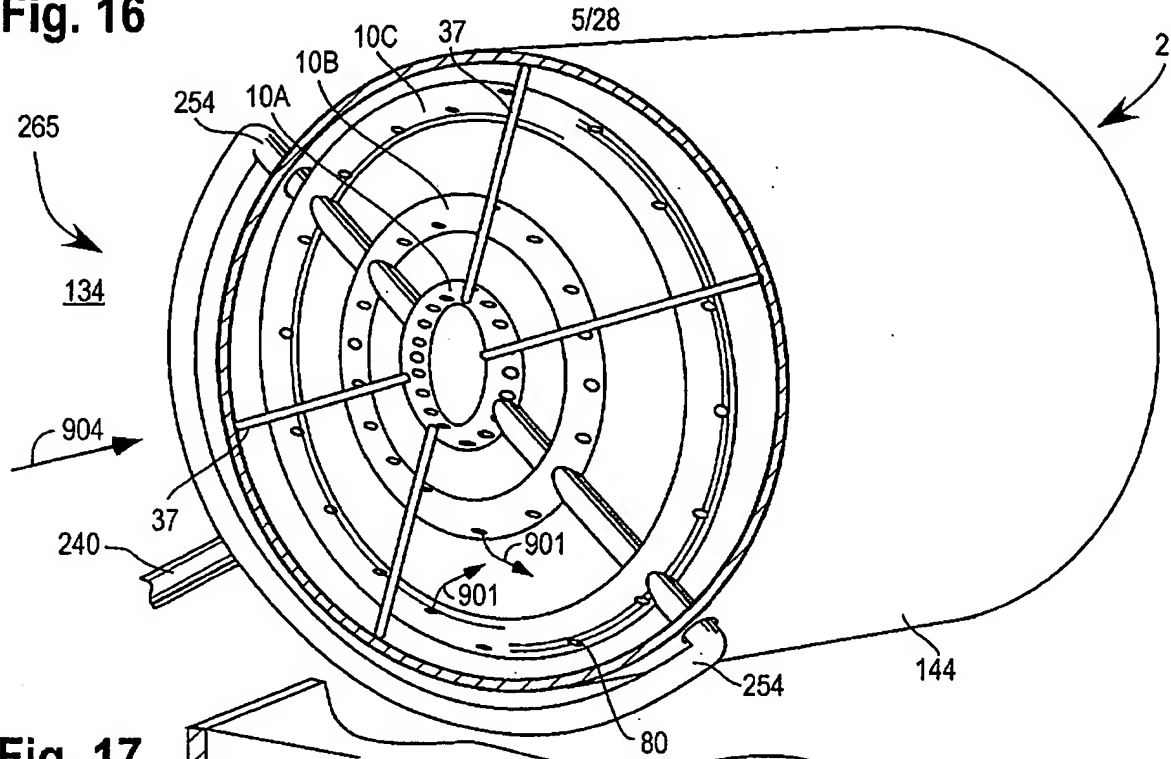
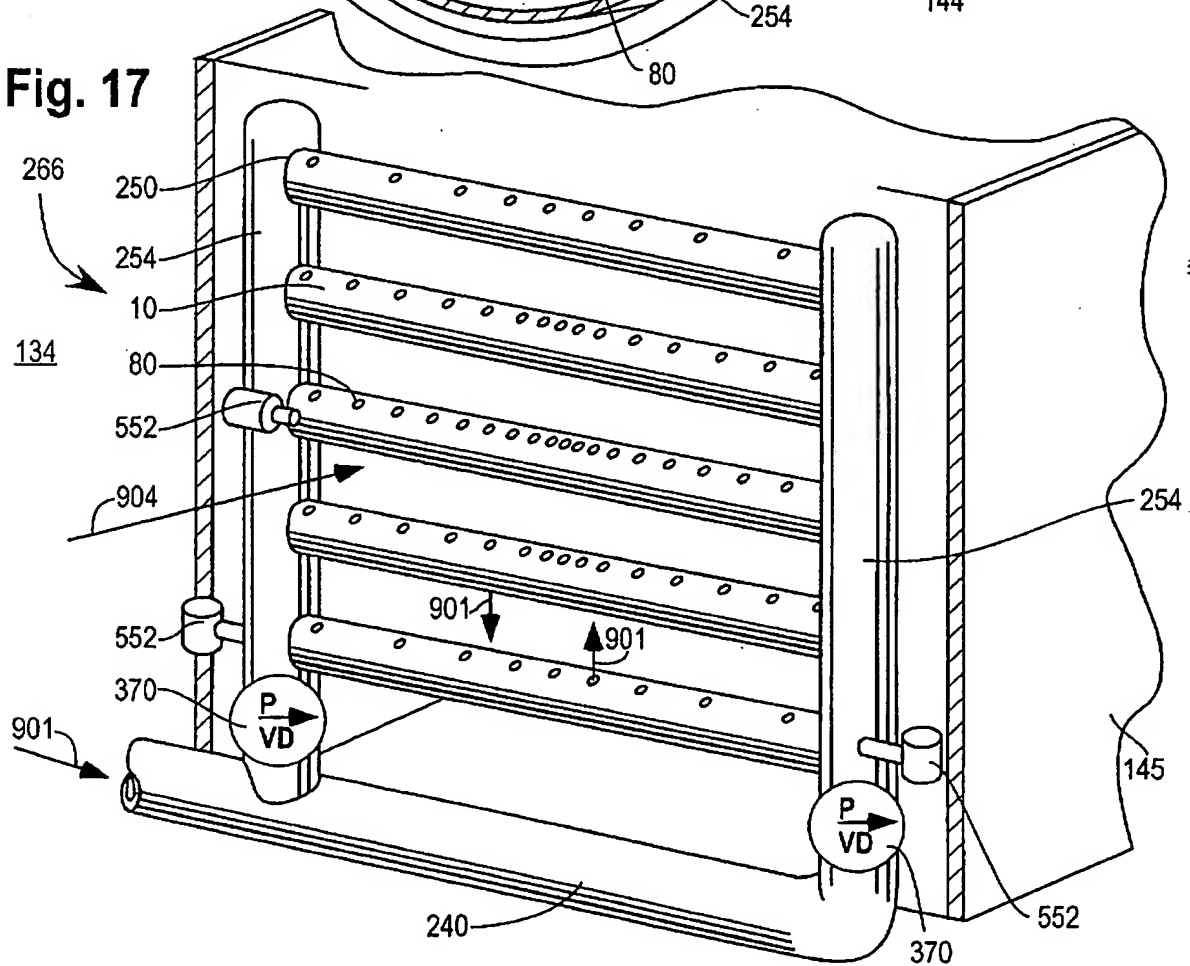


Method and Apparatus for Mixing Fluids
Hagen et al.
Atty Docket: VAST.001CP2

3/28

Fig. 7**Fig. 8****Fig. 9****Fig. 10****Fig. 11****Fig. 12**

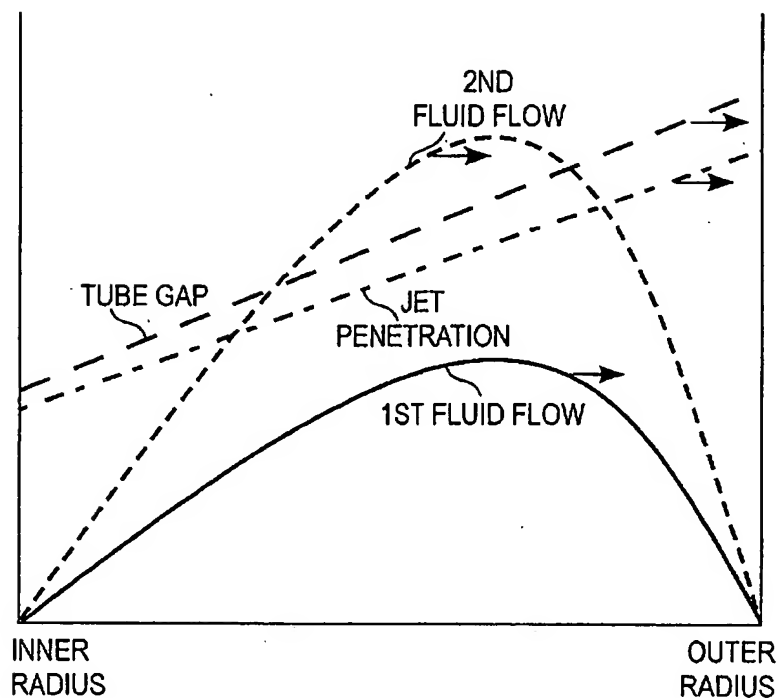
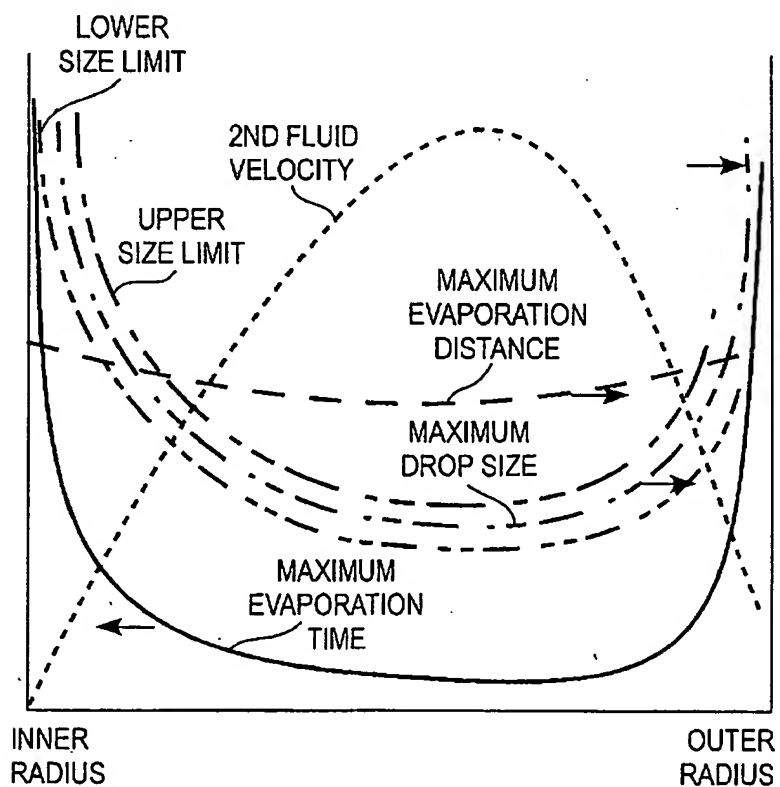
Method and Apparatus for Mixing Fluids
Hagen et al.
Atty Docket: VAST.001CP2

Fig. 16**Fig. 17**

Method and Apparatus for Mixing Fluids
Hagen et al.
Atty Docket: VAST.001CP2

Fig. 18

6/28

**Fig. 19**

Method and Apparatus for Mixing Fluids
Hagen et al.
Atty Docket: VAST.001CP2

Fig. 20

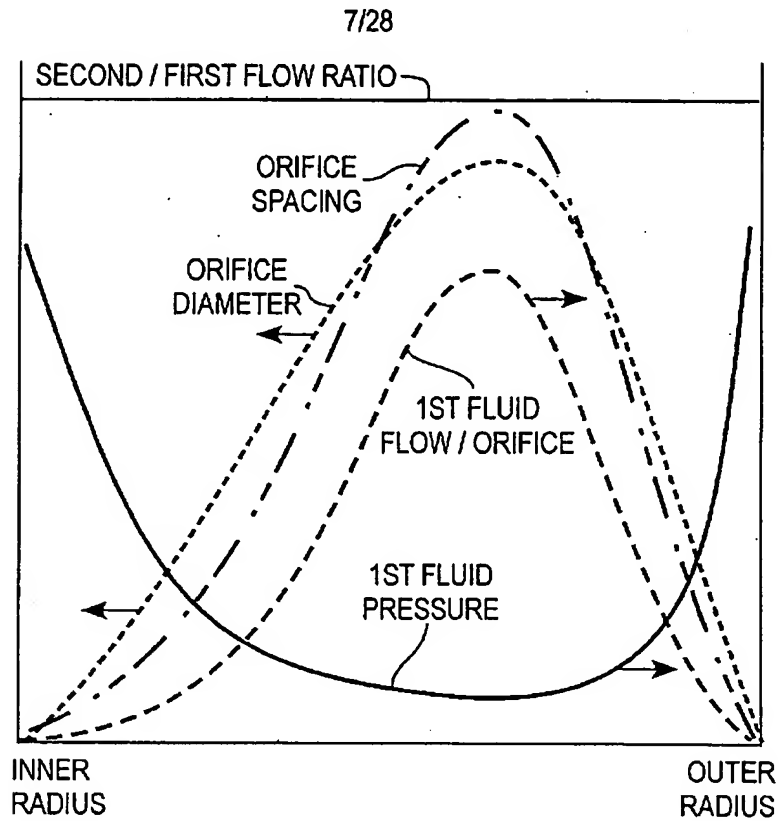


Fig. 21

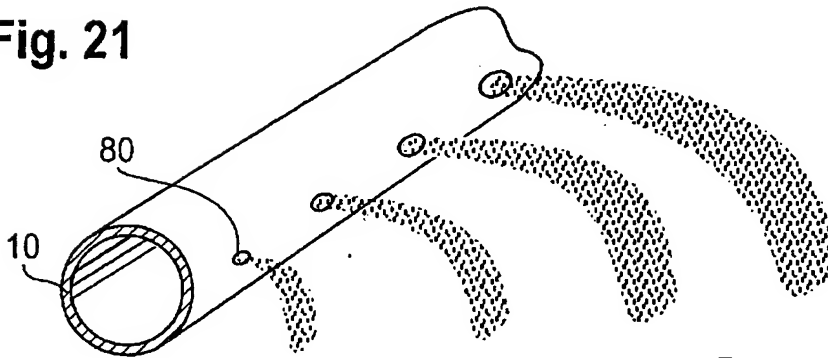
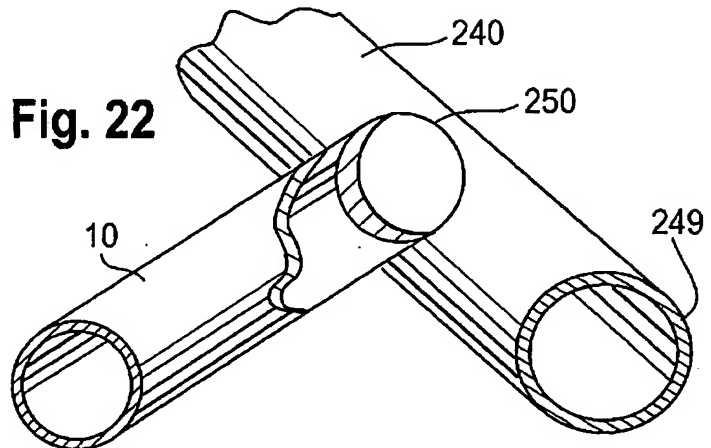
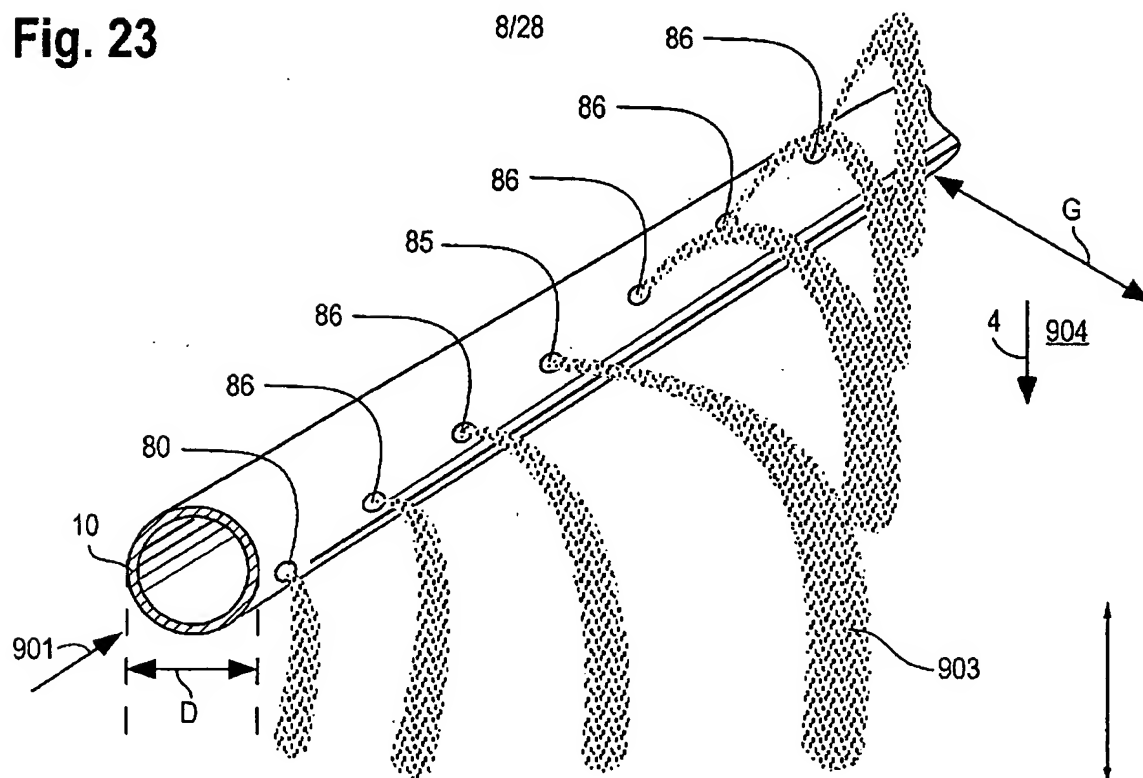
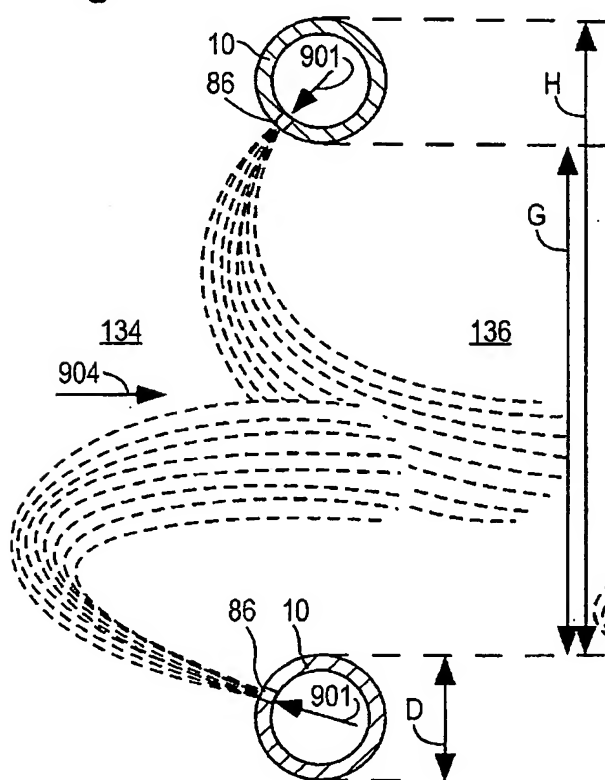
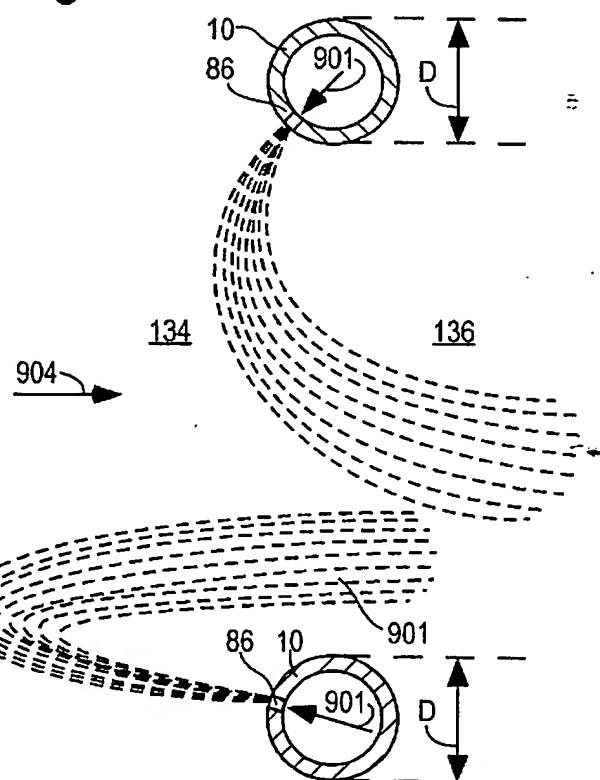


Fig. 22



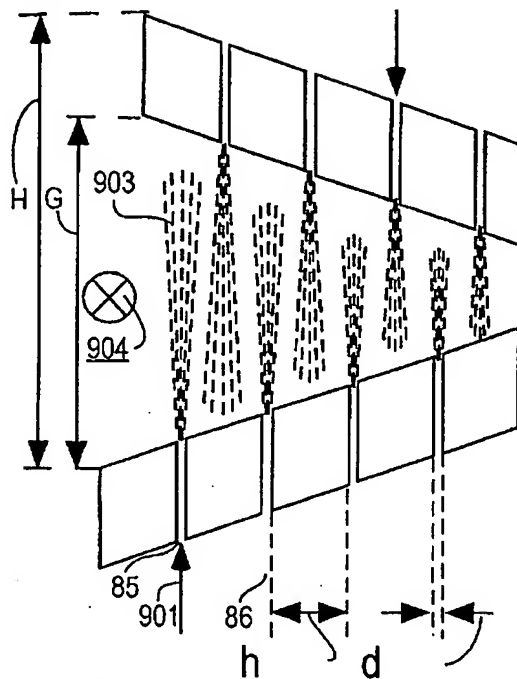
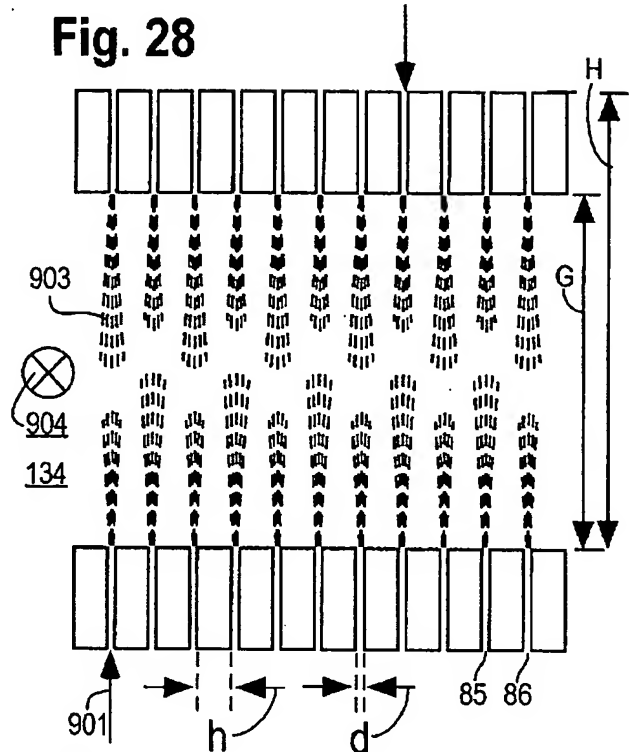
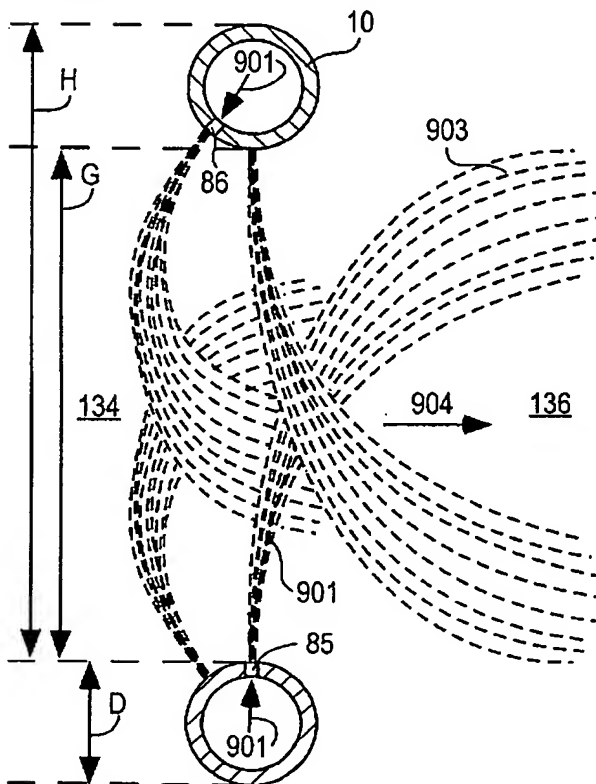
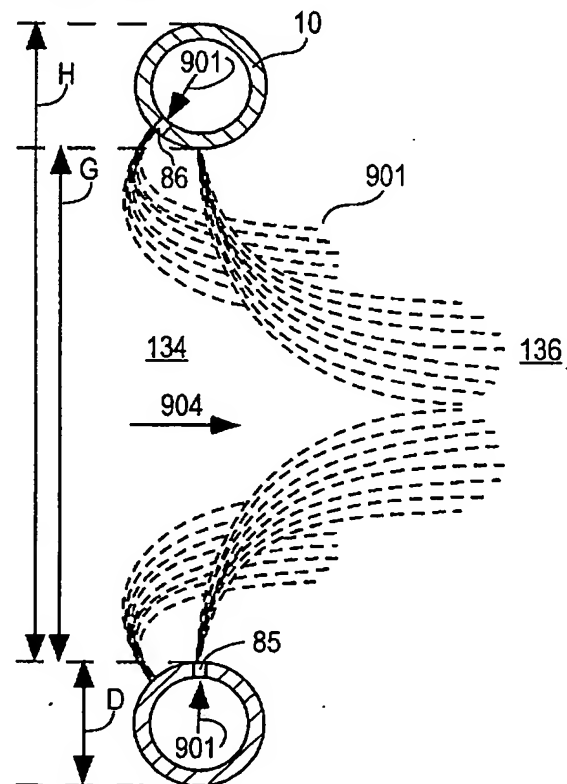
Method and Apparatus for Mixing Fluids
Hagen et al.
Atty Docket: VAST.001CP2

Fig. 23**Fig. 24****Fig. 25**

Method and Apparatus for Mixing Fluids
Hagen et al.
Atty Docket: VAST.001CP2

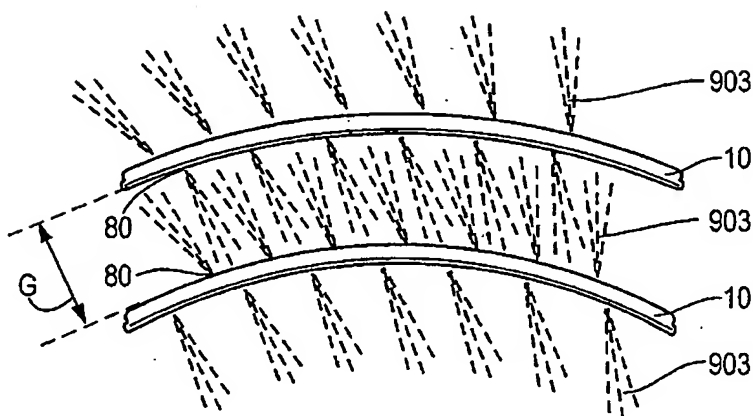
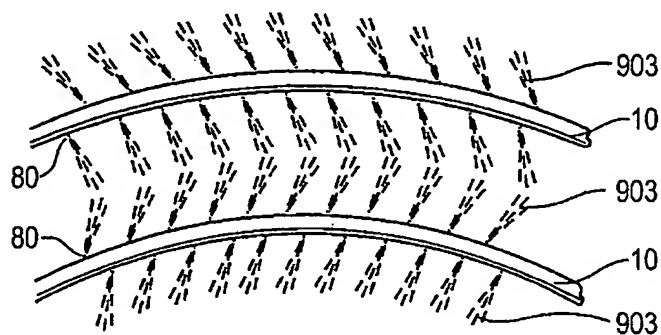
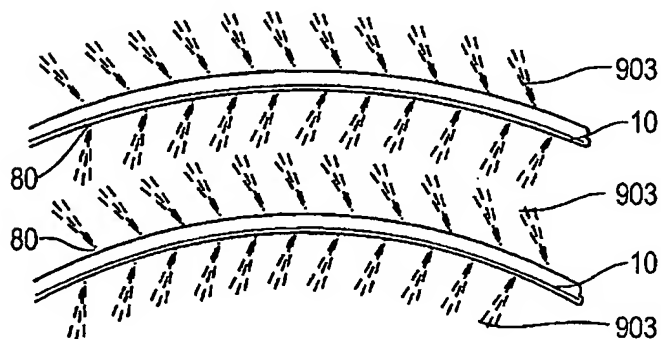
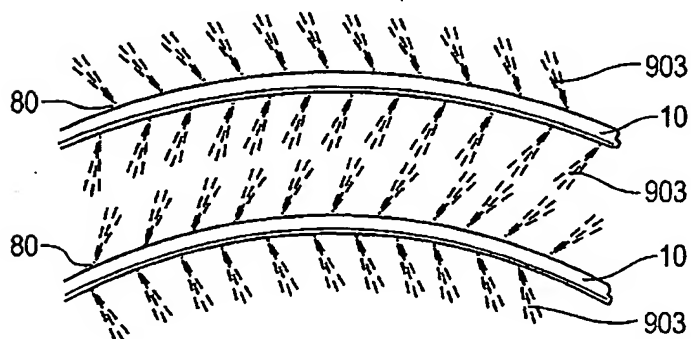
Fig. 26

9/28

**Fig. 28****Fig. 27****Fig. 29**

Method and Apparatus for Mixing Fluids
Hagen et al.
Atty Docket: VAST.001CP2

10/28

Fig. 30**Fig. 31****Fig. 32****Fig. 33**

Method and Apparatus for Mixing Fluids
Hagen et al.
Atty Docket: VAST.001CP2

Fig. 34

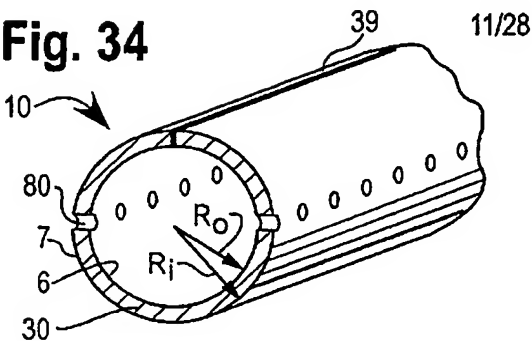


Fig. 38

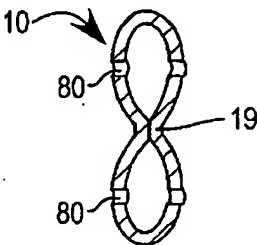


Fig. 39

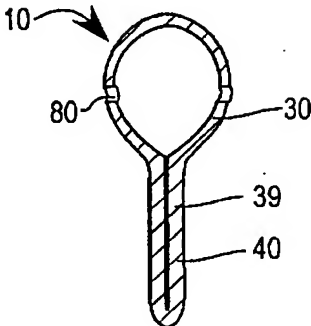


Fig. 35

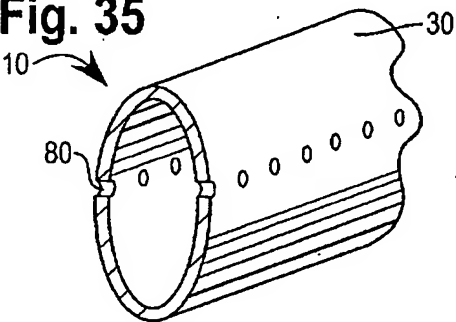


Fig. 40

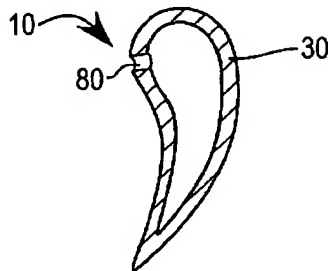


Fig. 36

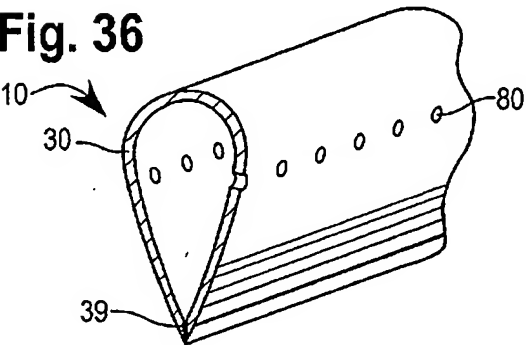


Fig. 41

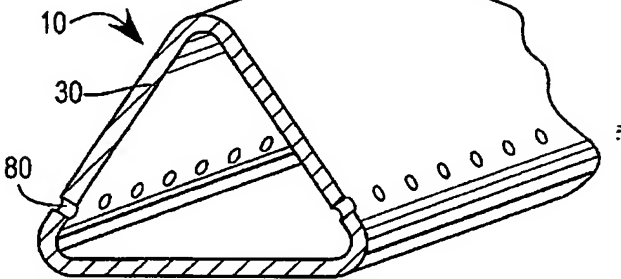


Fig. 37

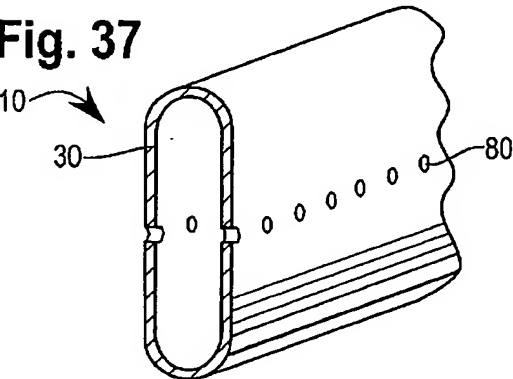
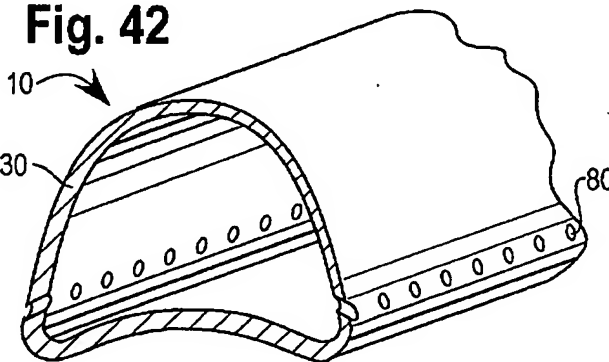
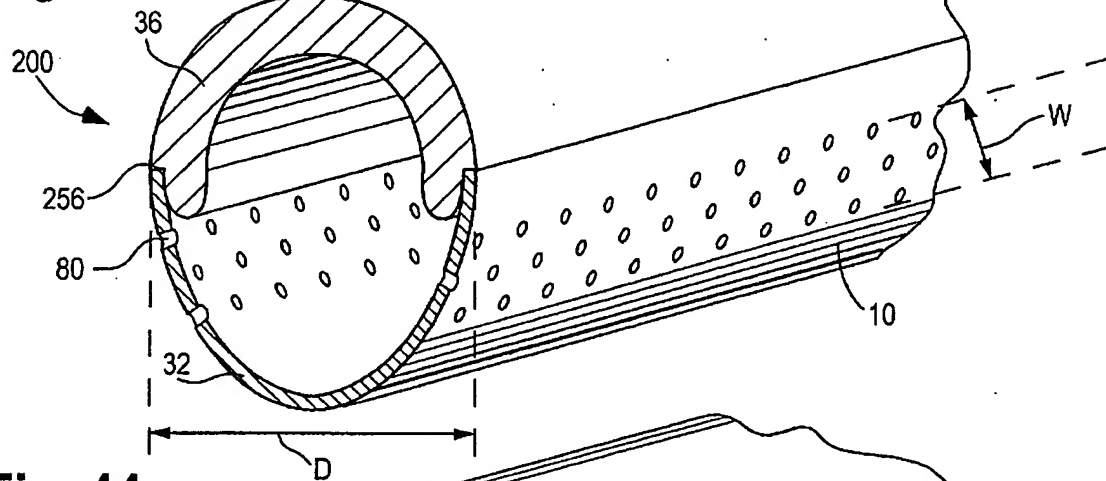
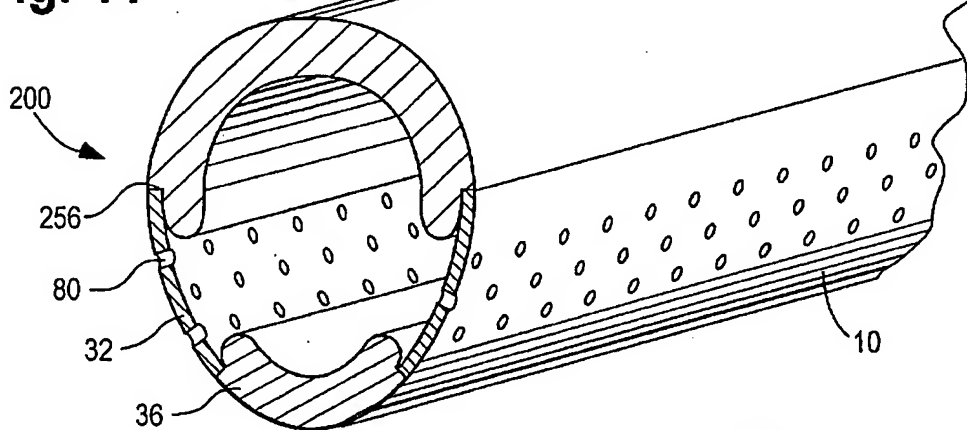
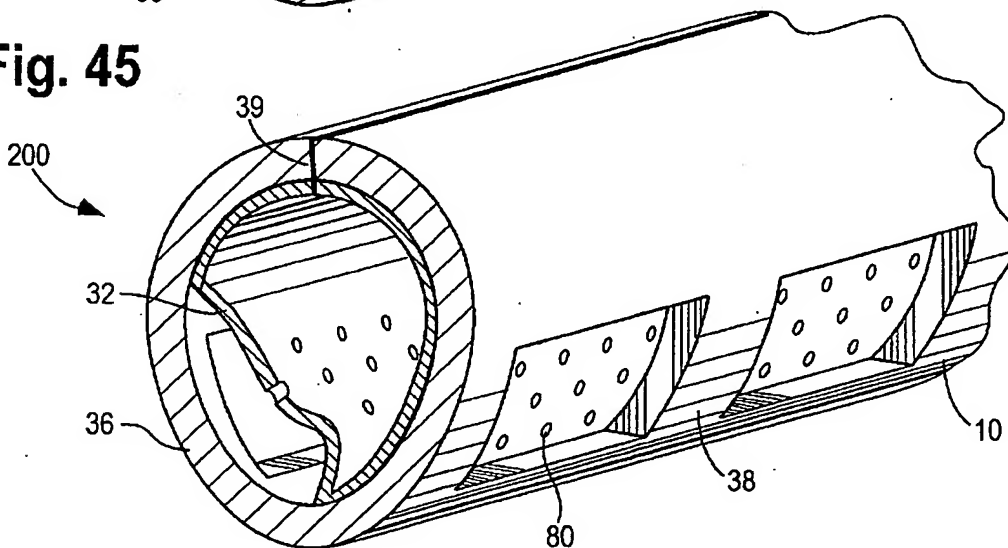


Fig. 42



Method and Apparatus for Mixing Fluids
Hagen et al.
Atty Docket: VAST.001CP2

12/28

Fig. 43**Fig. 44****Fig. 45**

Method and Apparatus for Mixing Fluids
Hagen et al.
Atty Docket: VAST.001CP2

Fig. 46

13/28

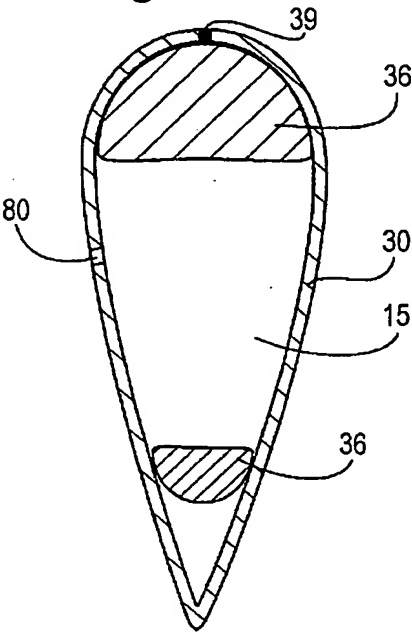


Fig. 48

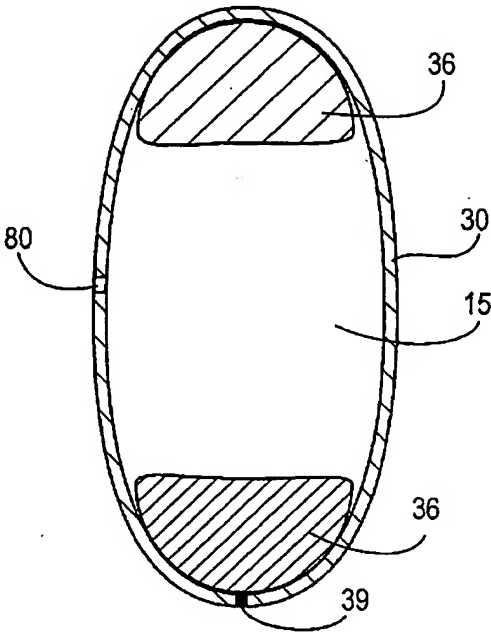


Fig. 47

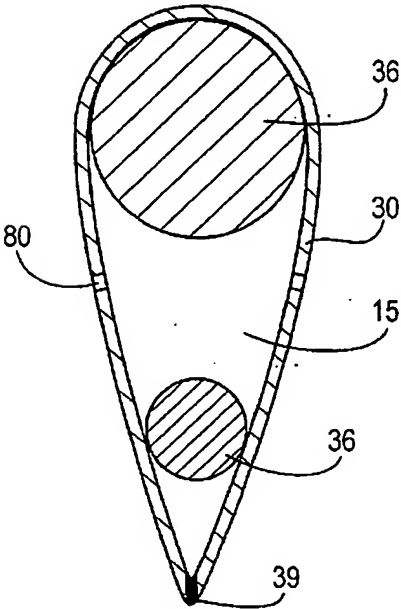
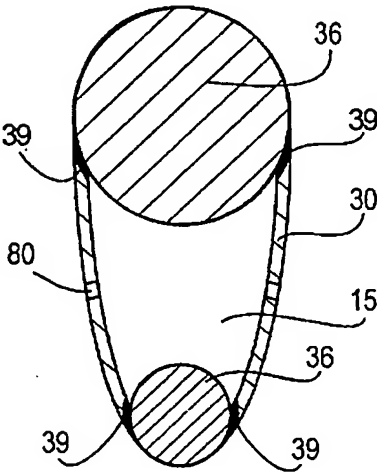
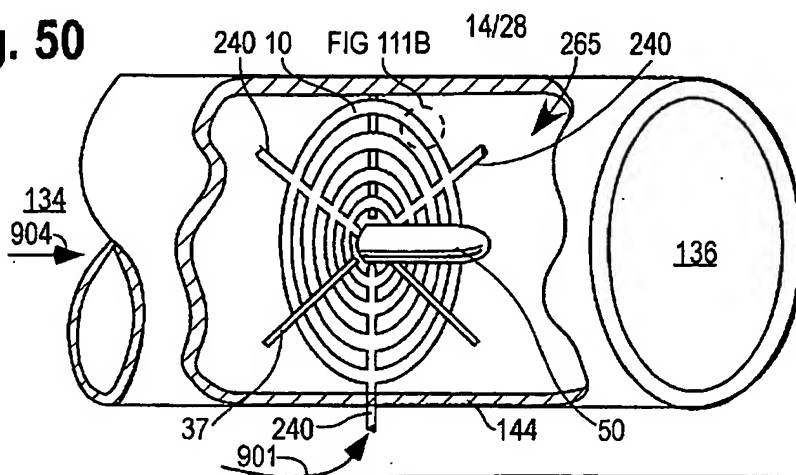
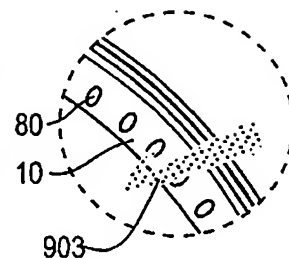
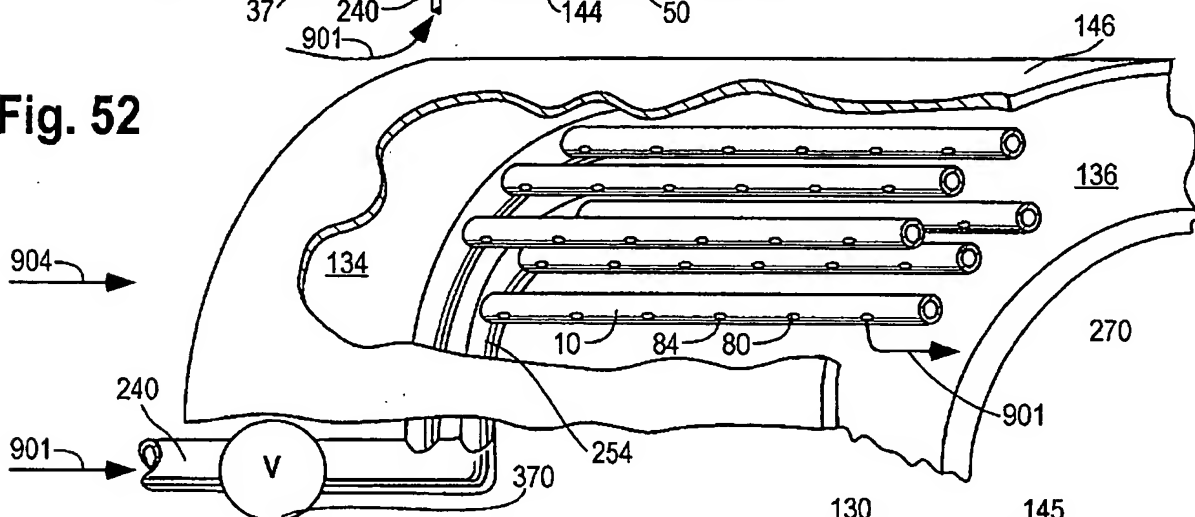
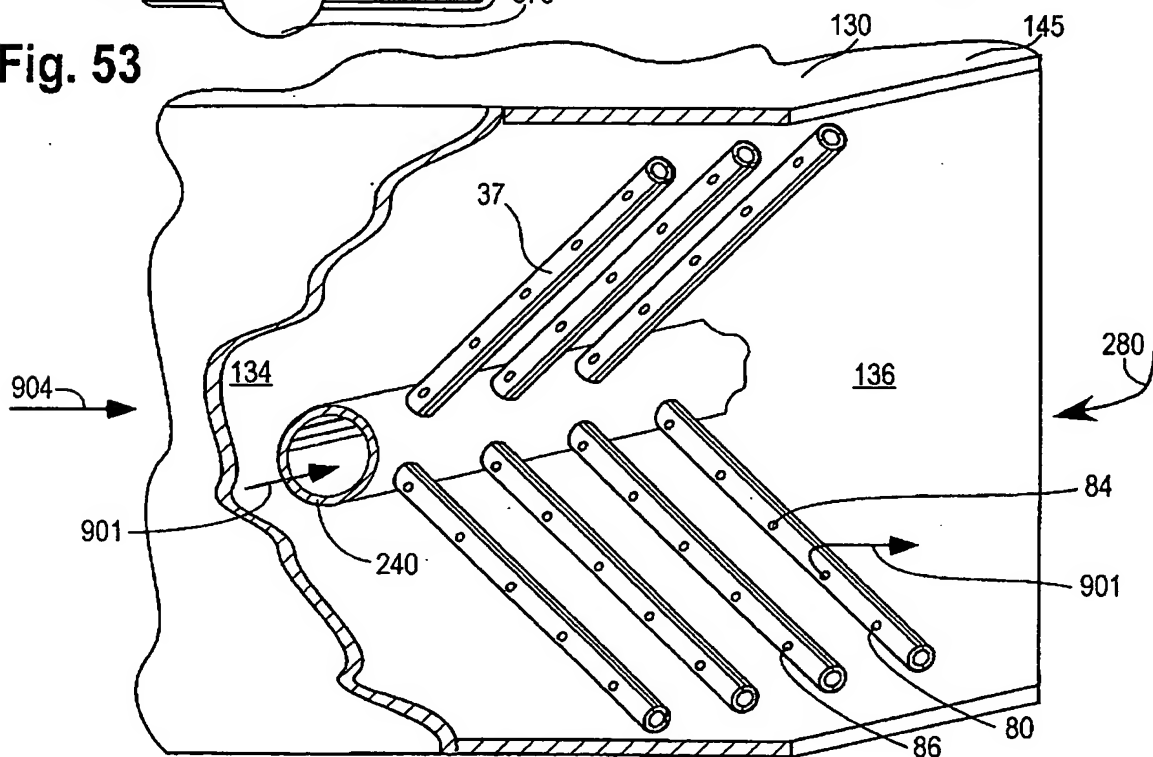


Fig. 49



Method and Apparatus for Mixing Fluids
Hagen et al.
Atty Docket: VAST.001CP2

Fig. 50**Fig. 51****Fig. 52****Fig. 53**

Method and Apparatus for Mixing Fluids
Hagen et al.
Atty Docket: VAST.001CP2

15/28

Fig. 54

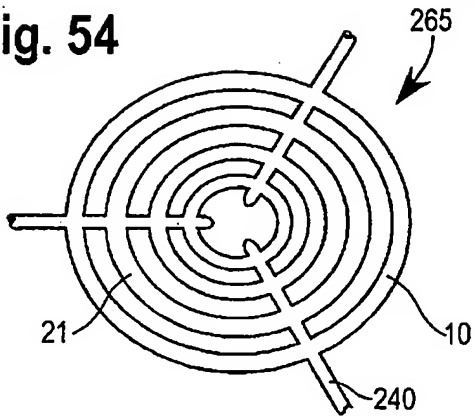


Fig. 57

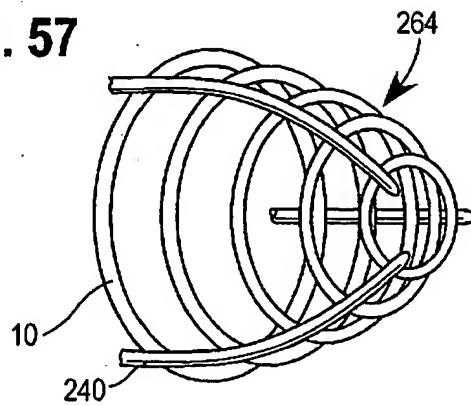


Fig. 55

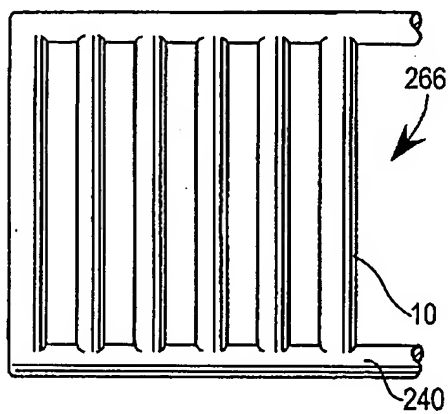


Fig. 58

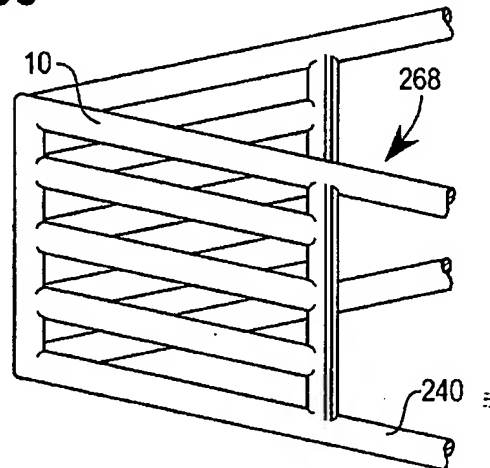


Fig. 56

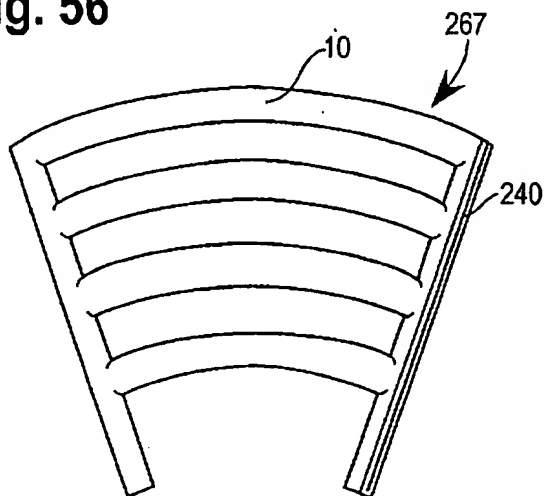
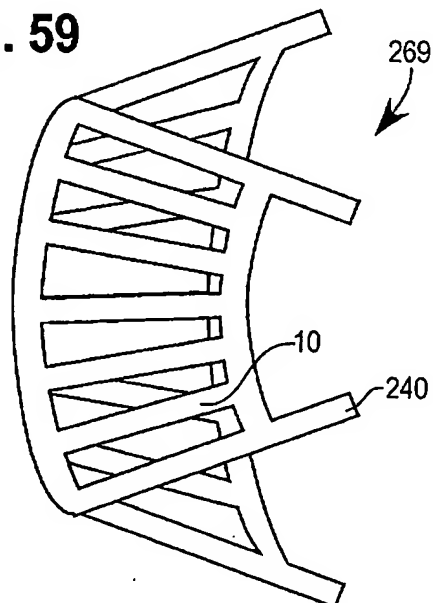


Fig. 59



Method and Apparatus for Mixing Fluids
Hagen et al.
Atty Docket: VAST.001CP2

Fig. 60

16/28

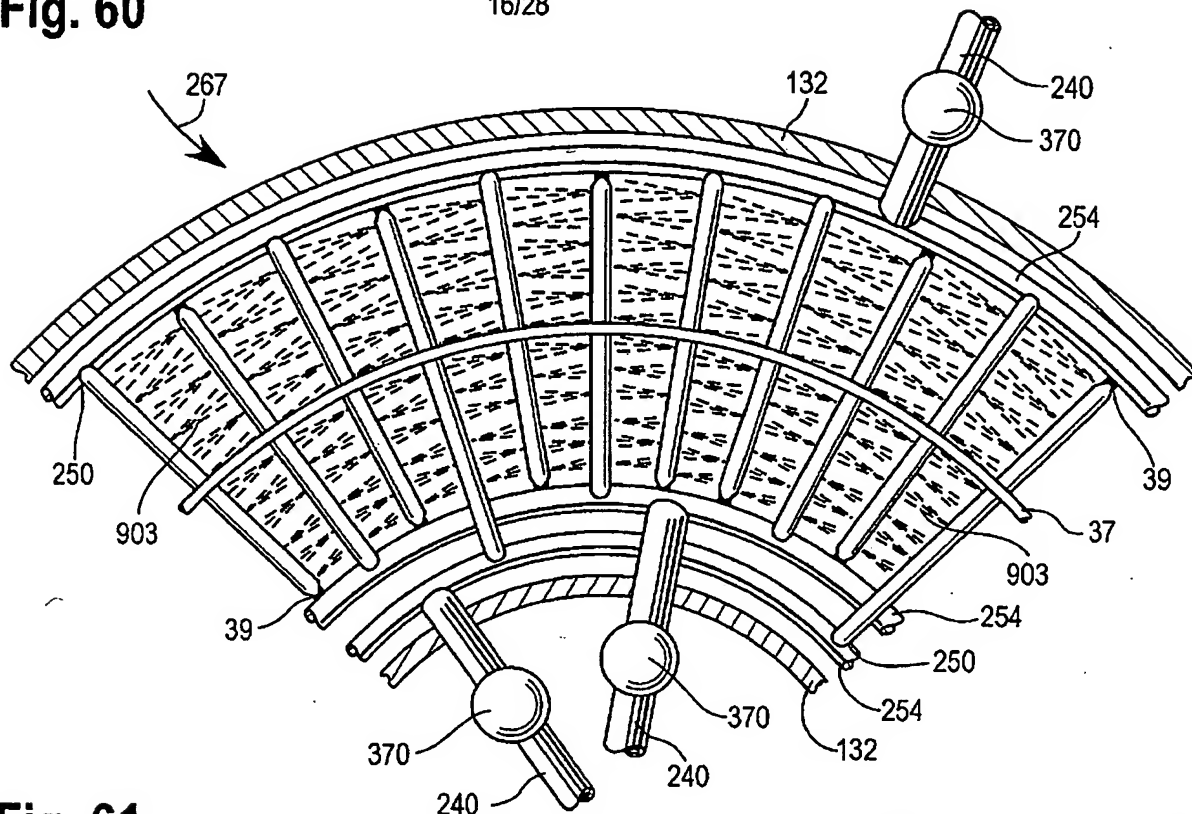
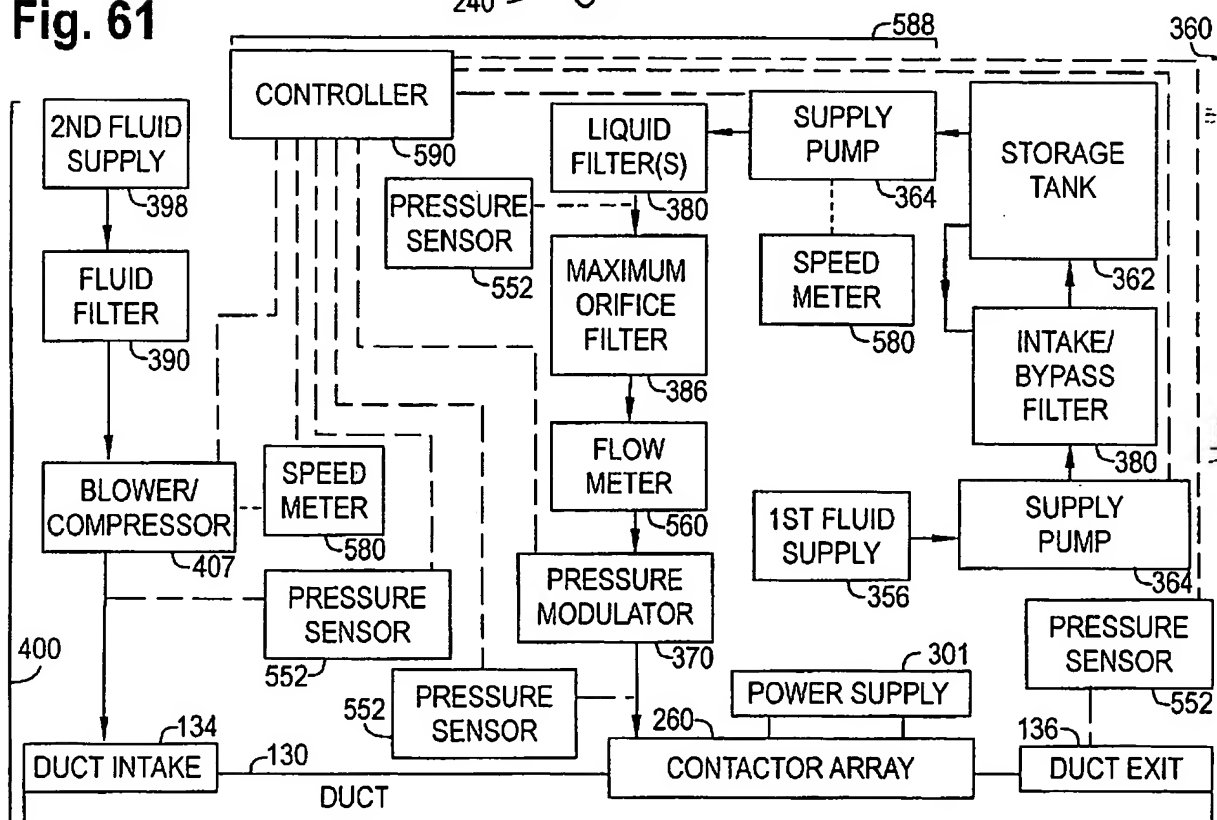


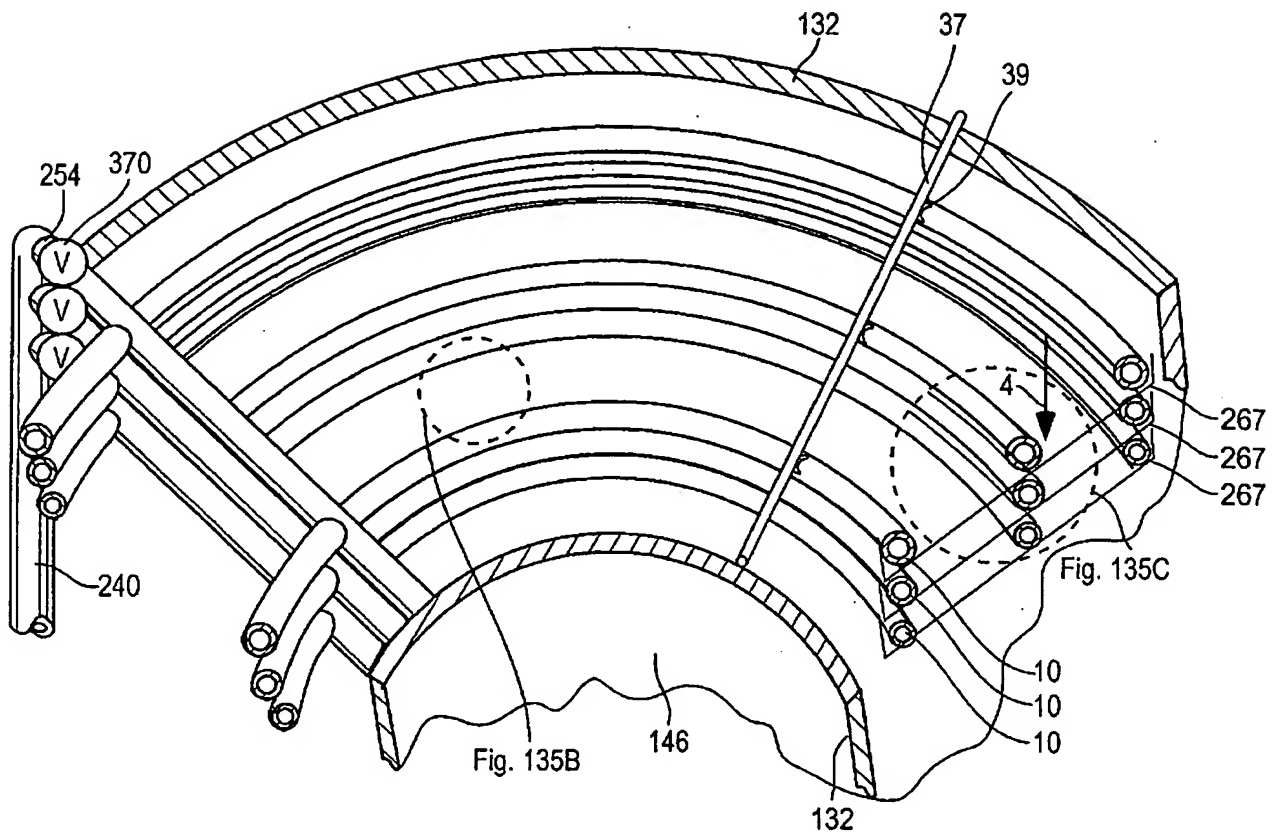
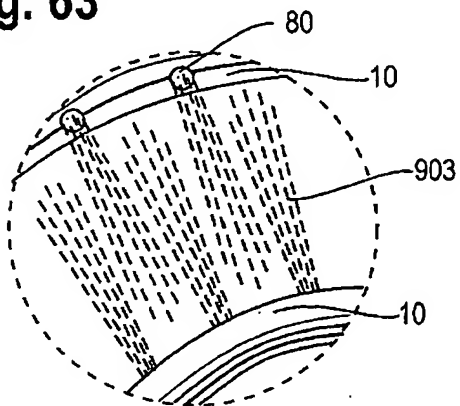
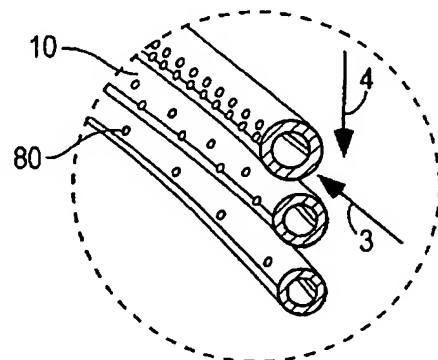
Fig. 61



Method and Apparatus for Mixing Fluids
Hagen et al.
Atty Docket: VAST.001CP2

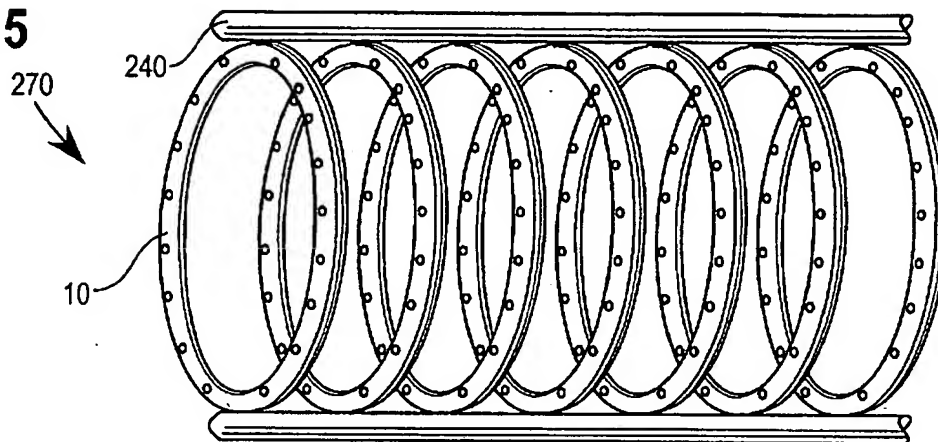
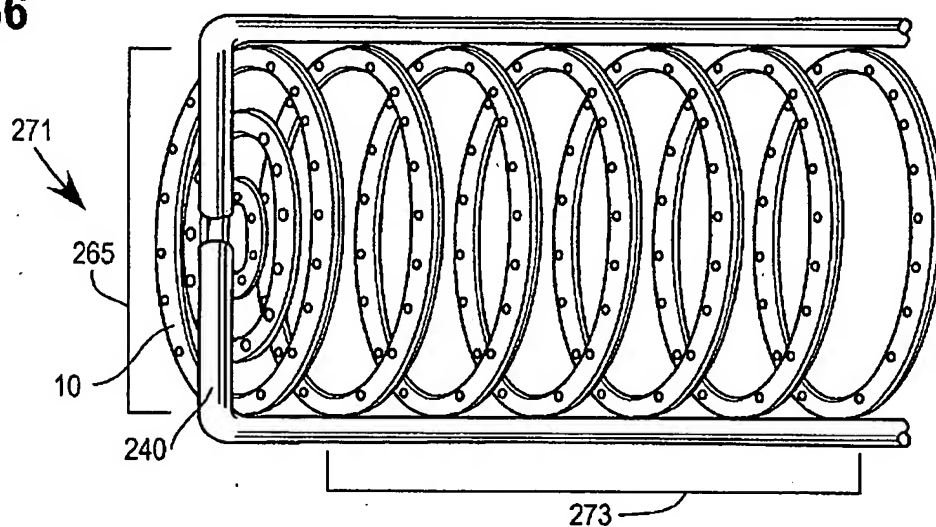
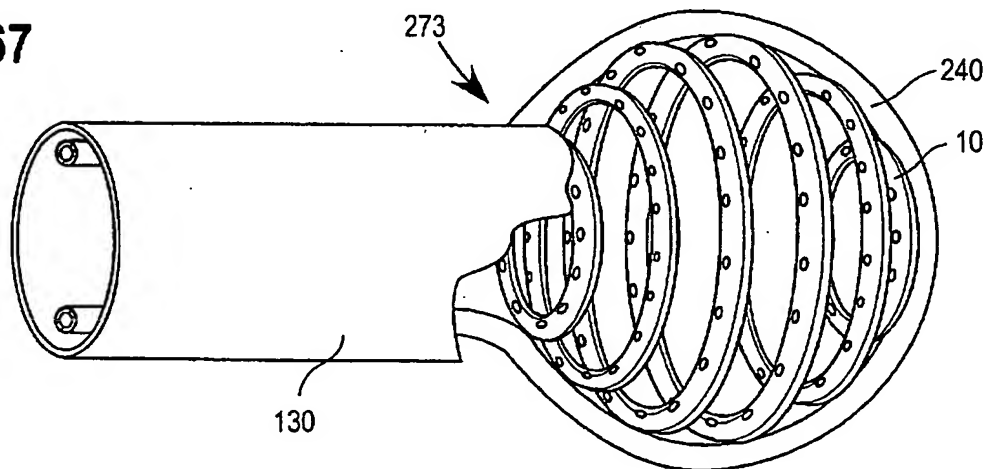
Fig. 62

17/28

**Fig. 63****Fig. 64**

Method and Apparatus for Mixing Fluids
Hagen et al.
Atty Docket: VAST.001CP2

18/28

Fig. 65**Fig. 66****Fig. 67**

Method and Apparatus for Mixing Fluids
Hagen et al.
Atty Docket: VAST.001CP2

Fig. 68

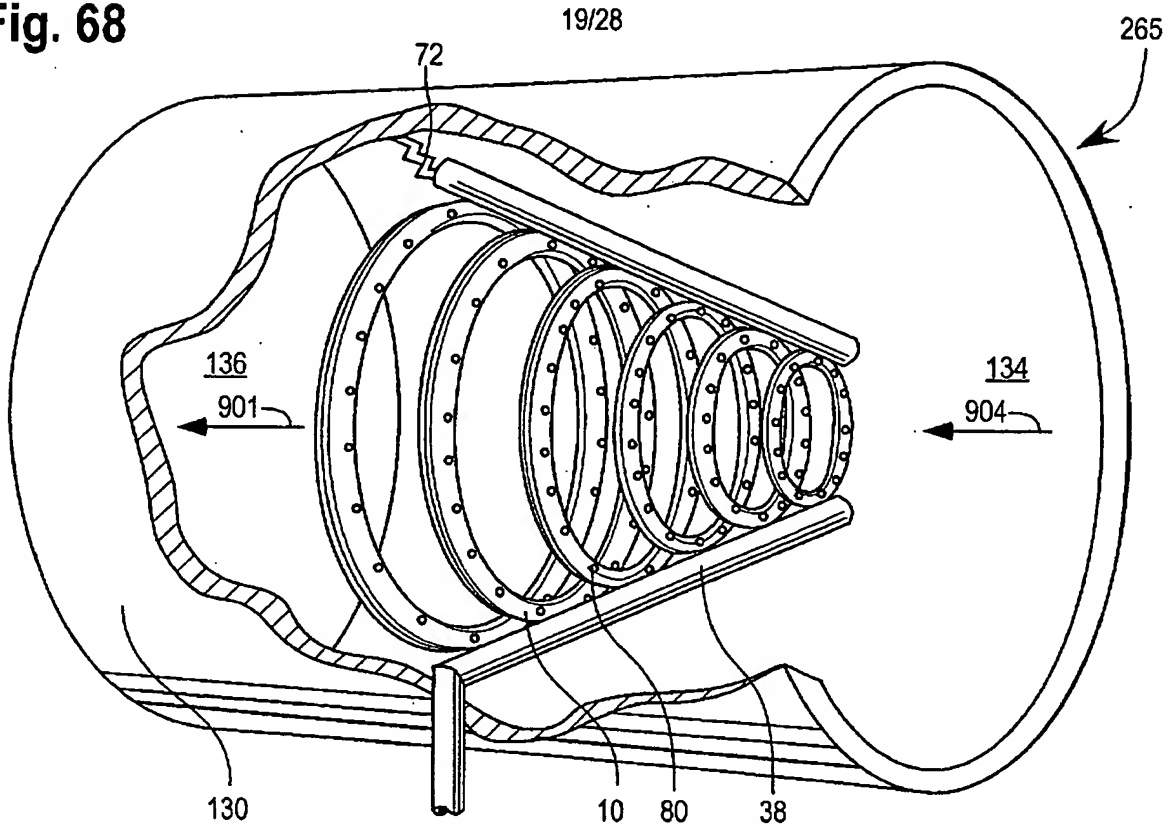
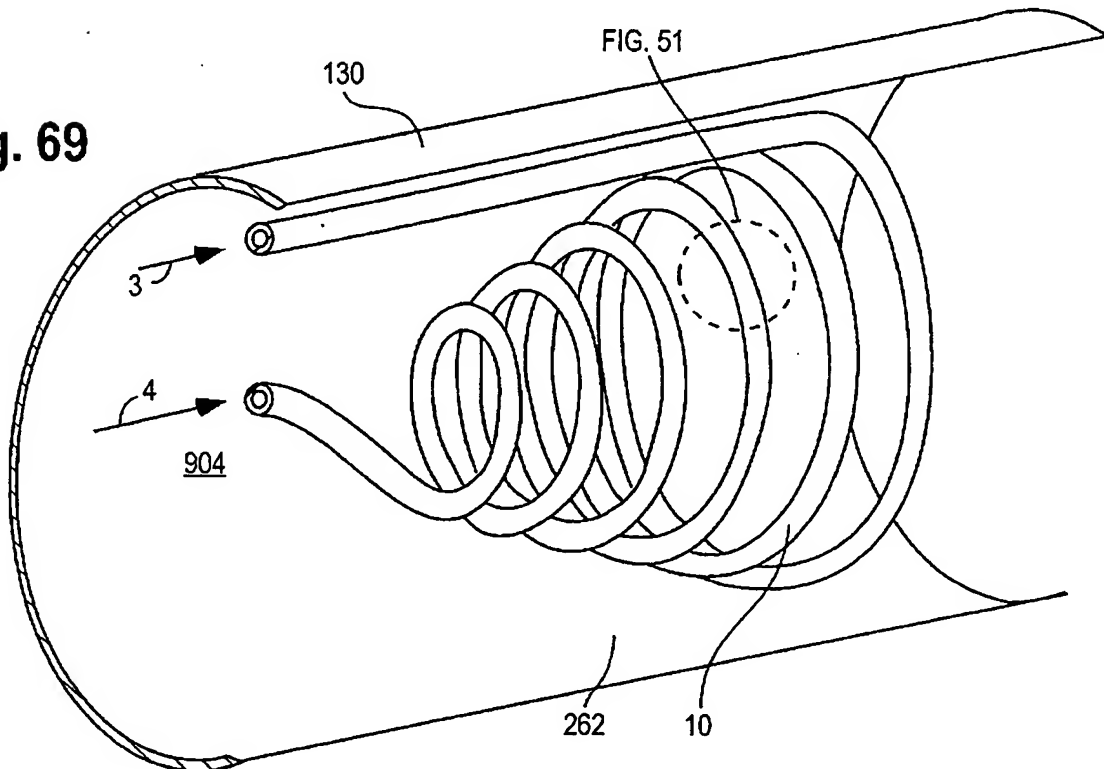
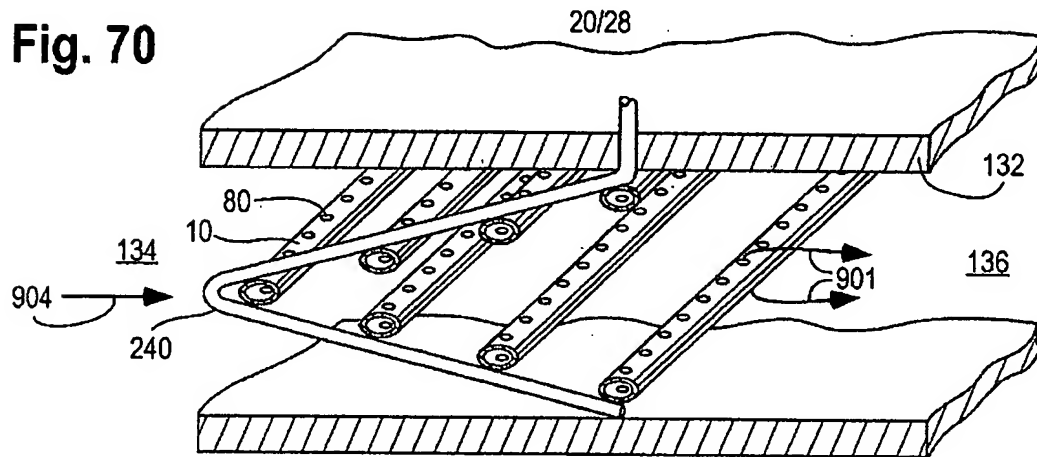
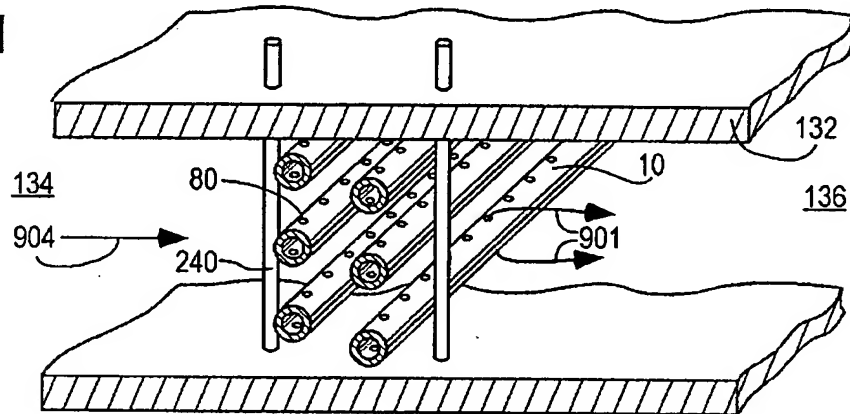
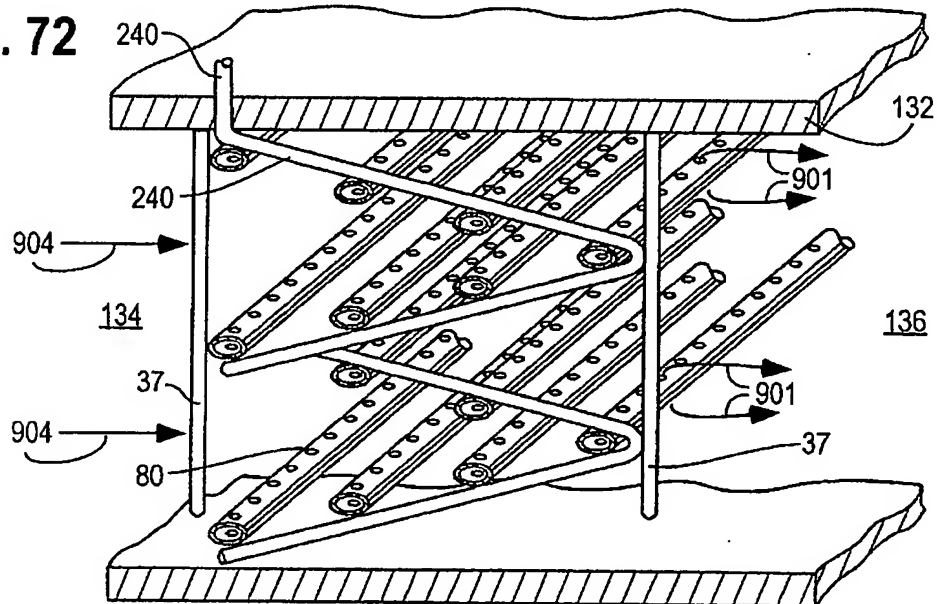


Fig. 69

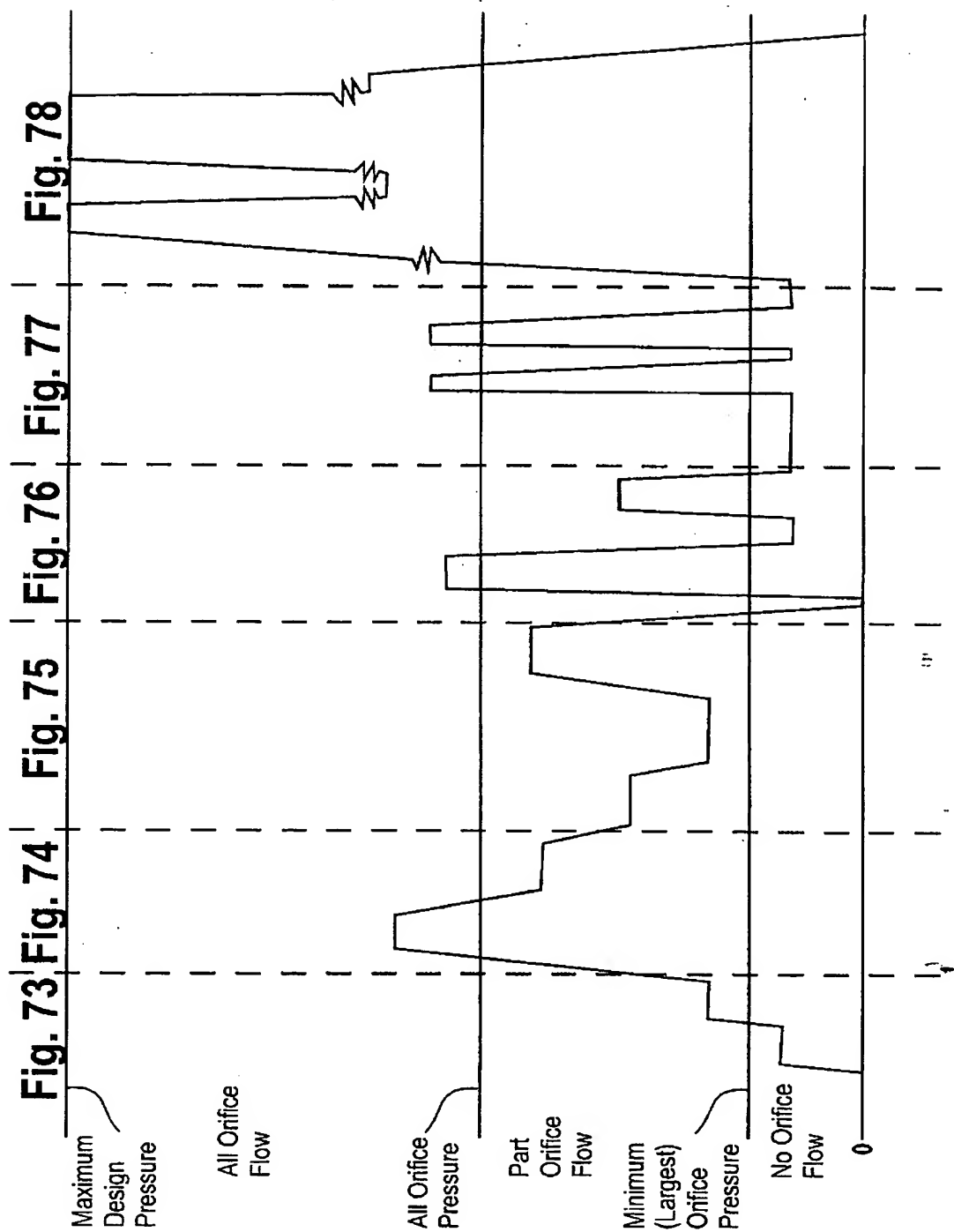


Method and Apparatus for Mixing Fluids
Hagen et al.
Atty Docket: VAST.001CP2

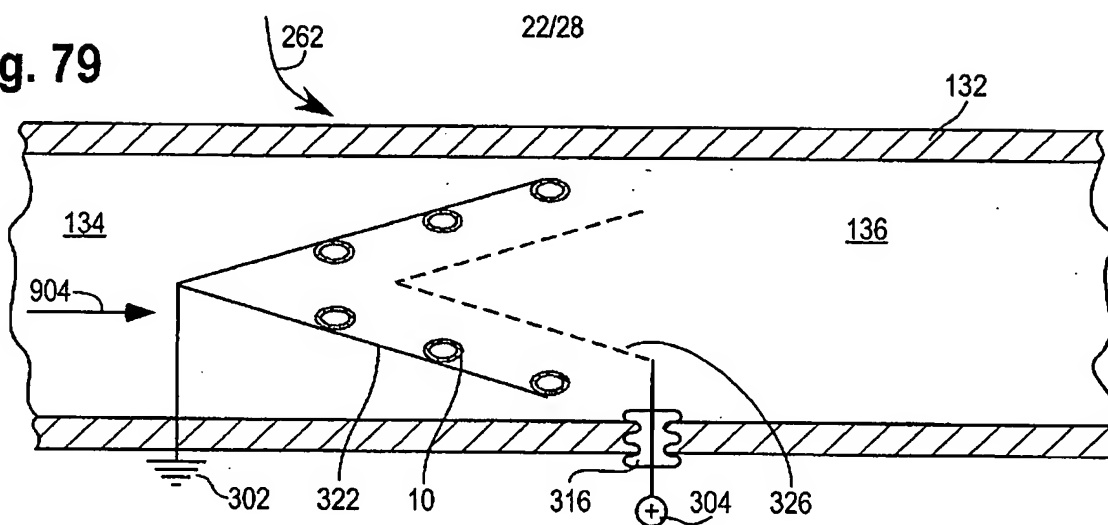
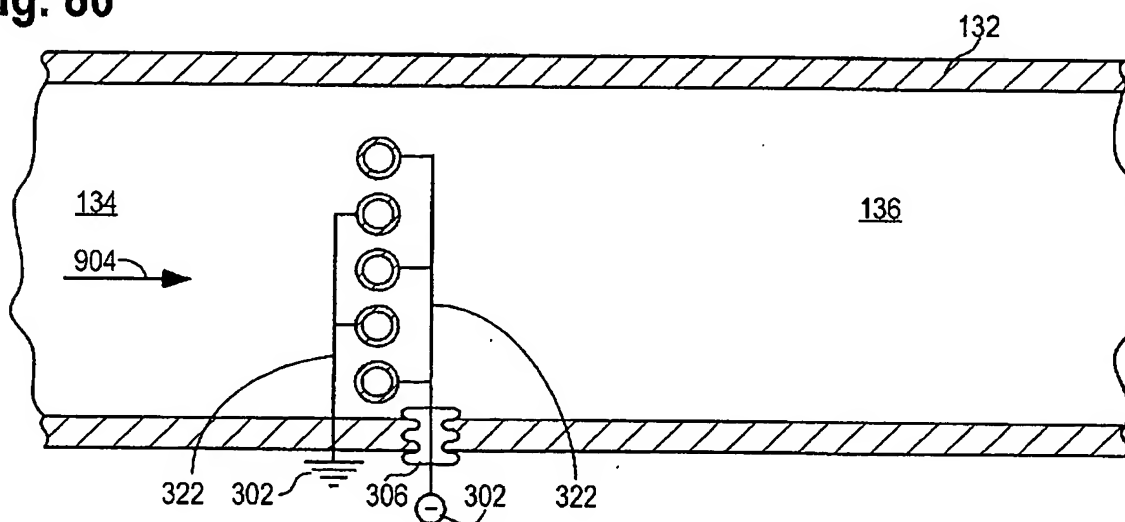
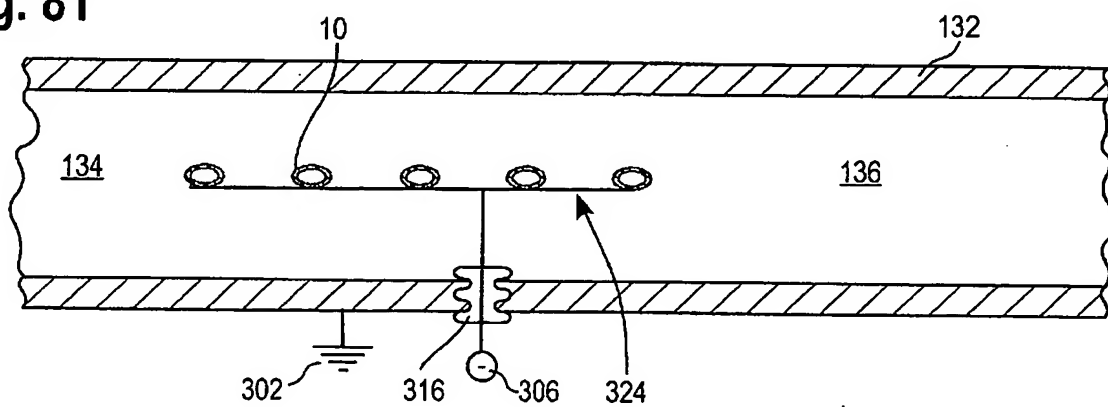
Fig. 70**Fig. 71****Fig. 72**

Method and Apparatus for Mixing Fluids
Hagen et al.
Atty Docket: VAST.001CP2

21/28

Fig. 73-78

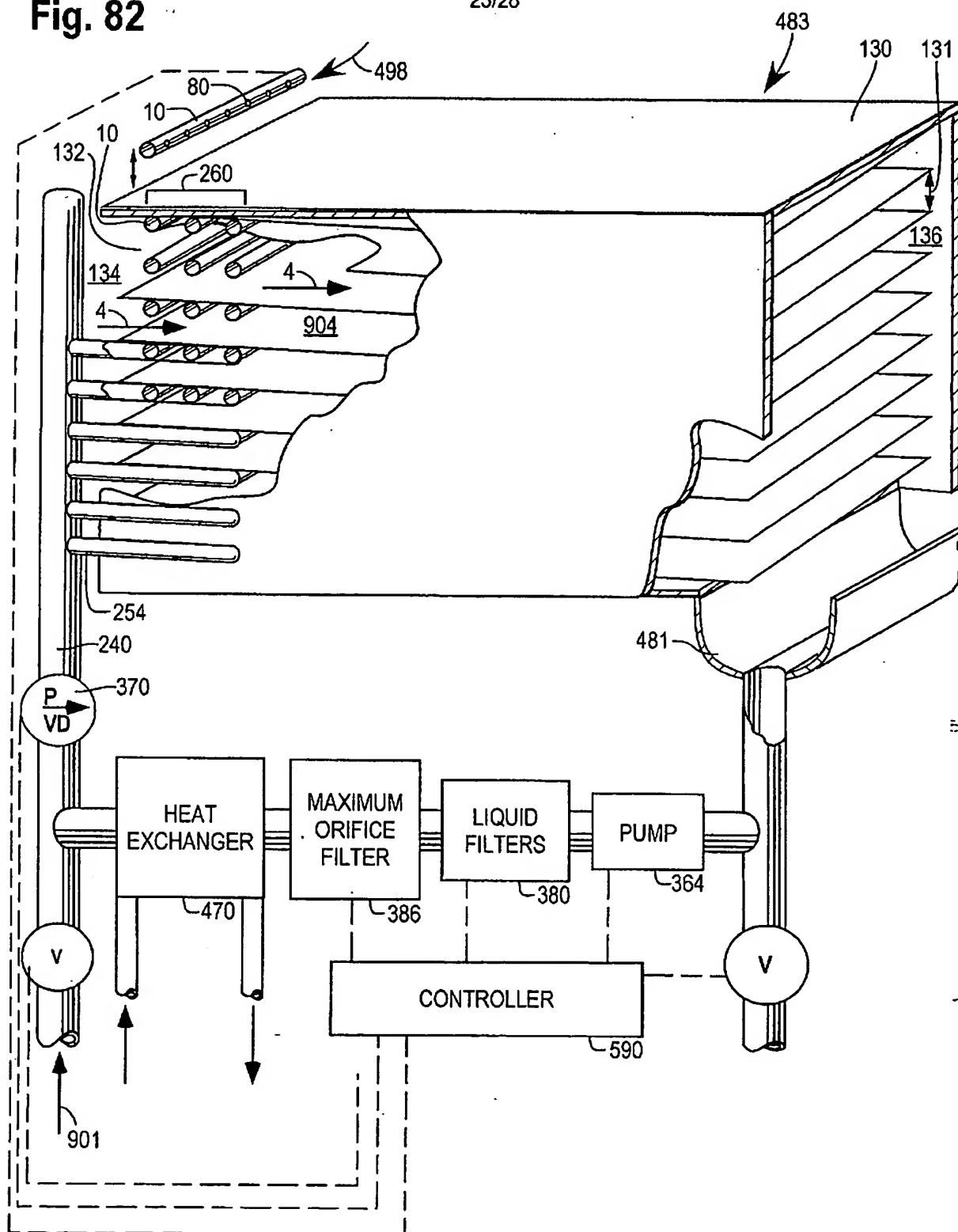
Method and Apparatus for Mixing Fluids
Hagen et al.
Atty Docket: VAST.001CP2

Fig. 79**Fig. 80****Fig. 81**

Method and Apparatus for Mixing Fluids
Hagen et al.
Atty Docket: VAST.001CP2

Fig. 82

23/28



Method and Apparatus for Mixing Fluids
Hagen et al.
Atty Docket: VAST.001CP2

Fig. 83

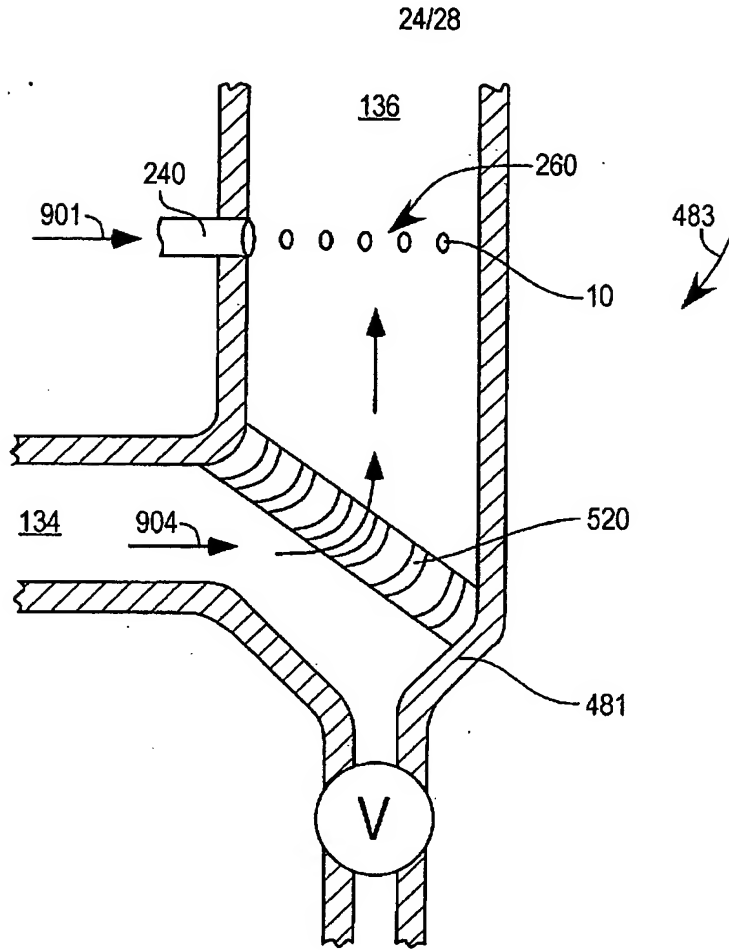
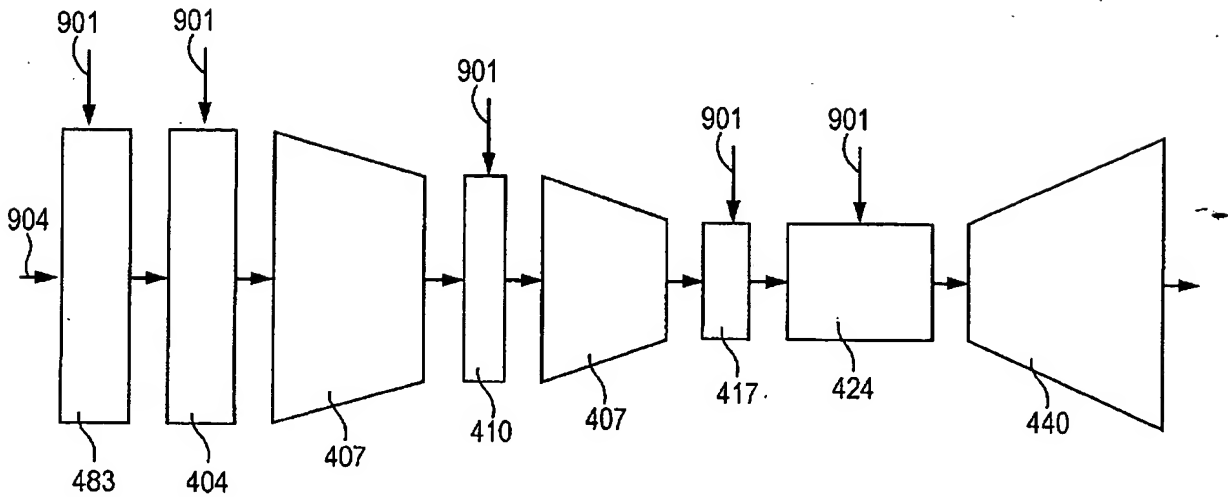


Fig. 84



Method and Apparatus for Mixing Fluids

Hagen et al.

Atty Docket: VAST.001CP2

Fig. 85

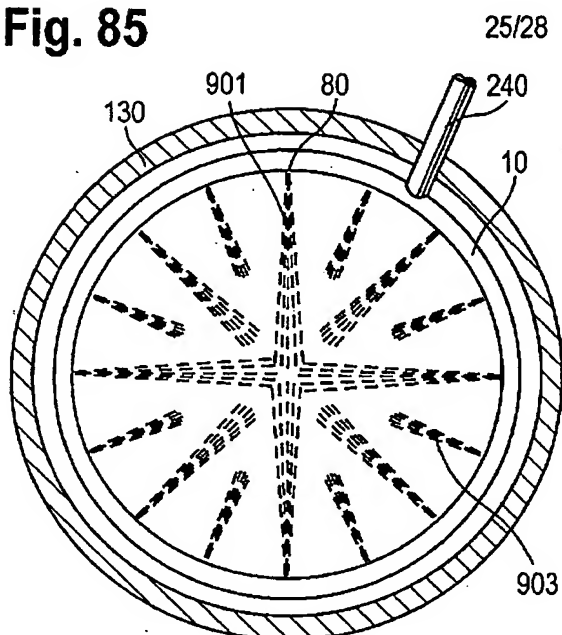


Fig. 86

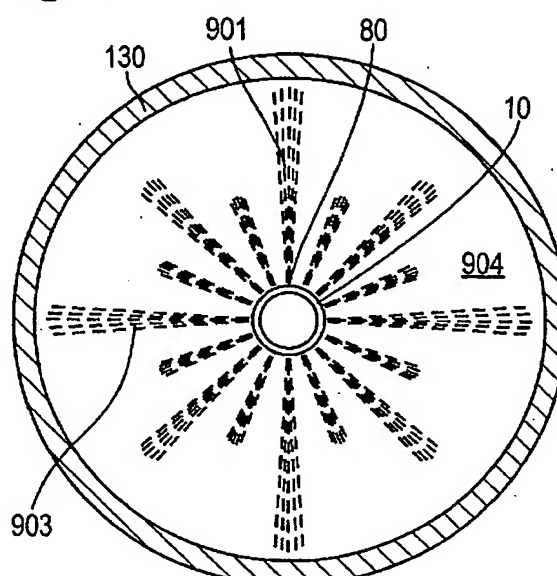
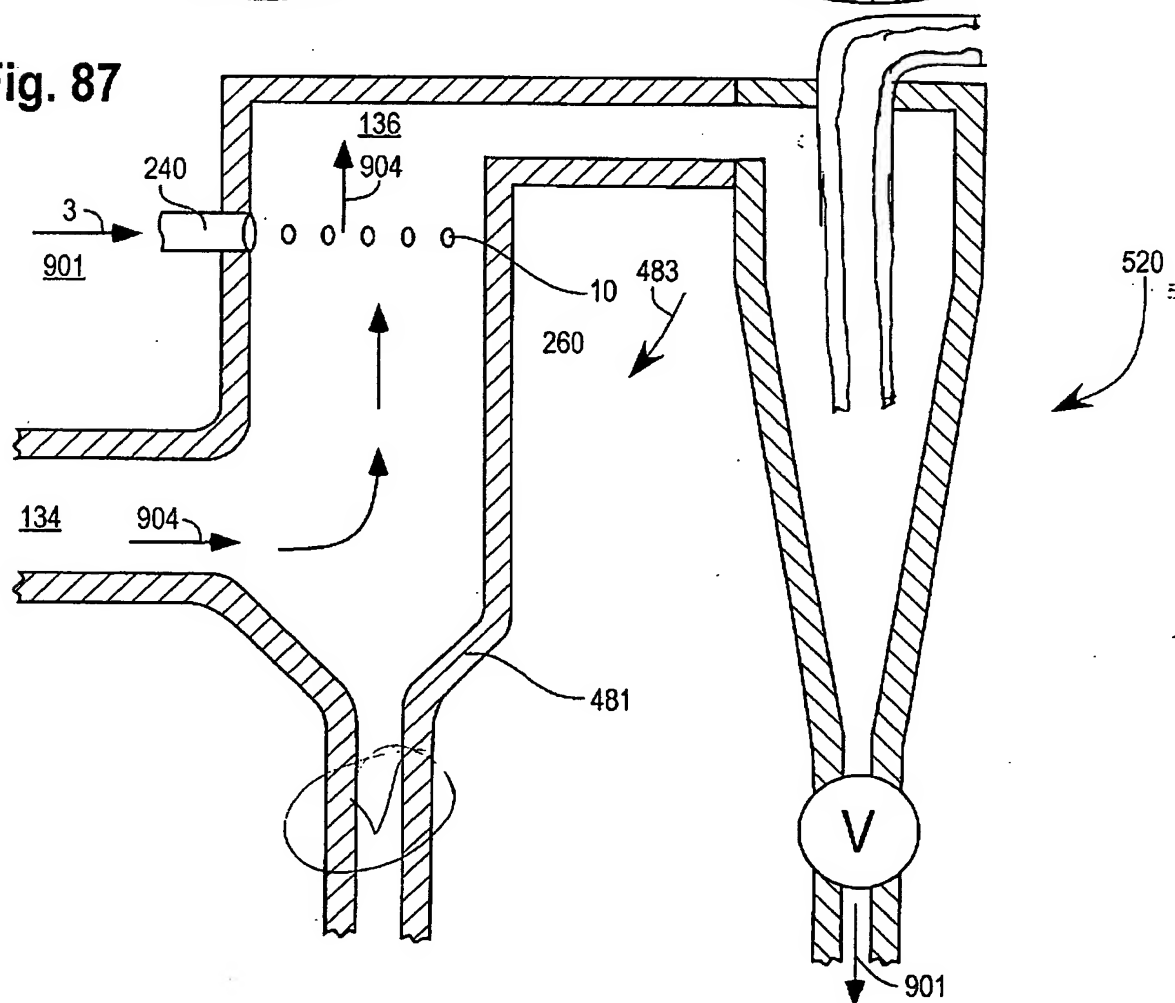
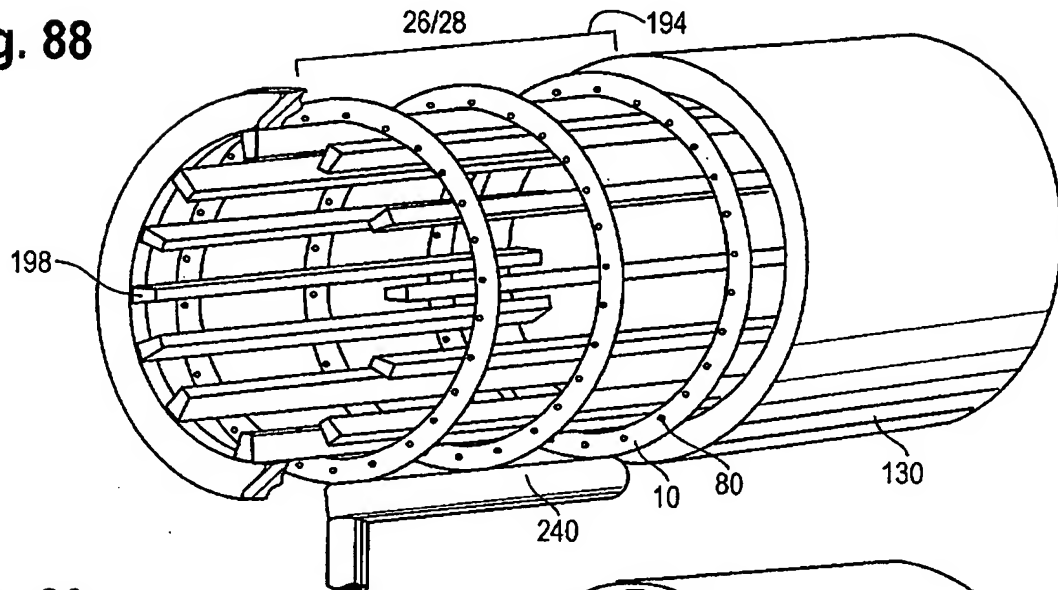
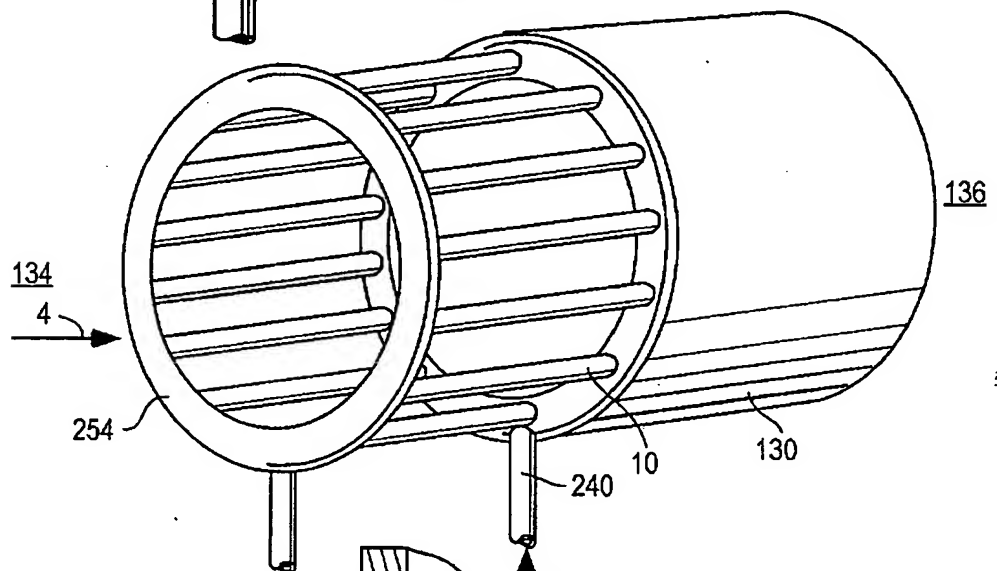
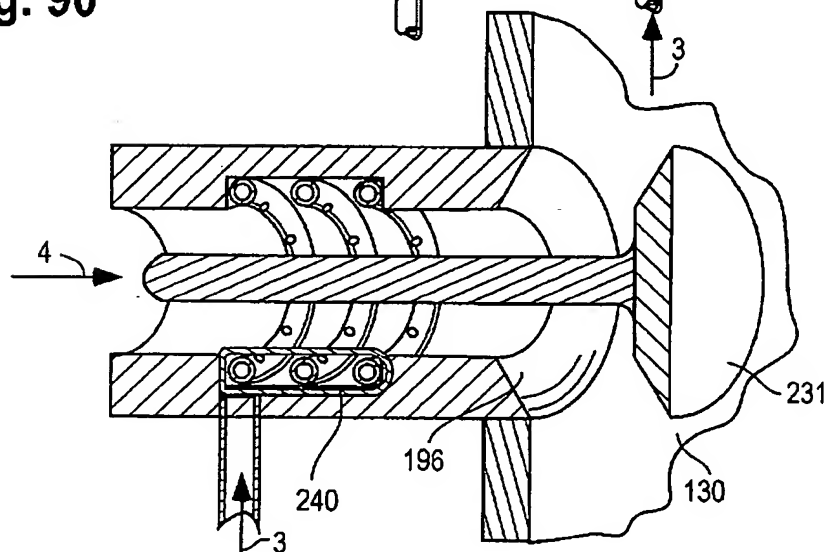


Fig. 87



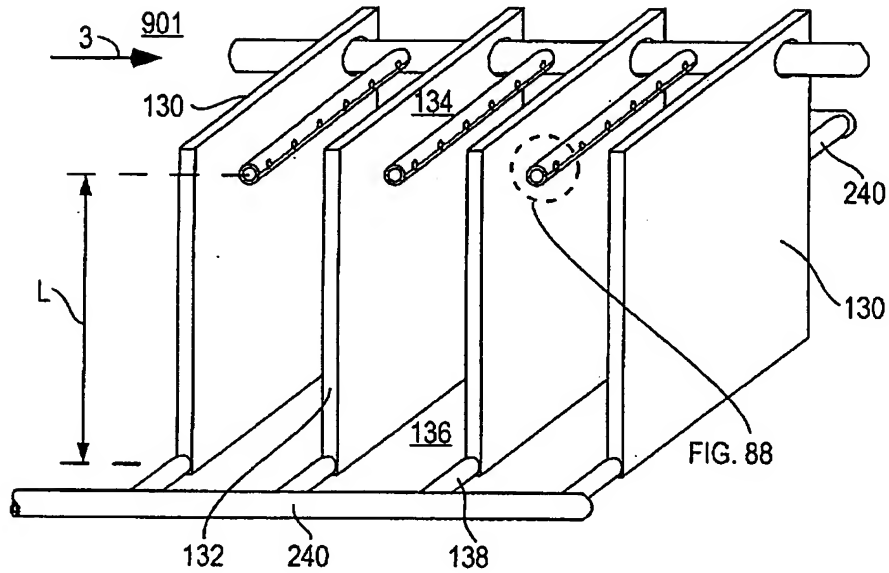
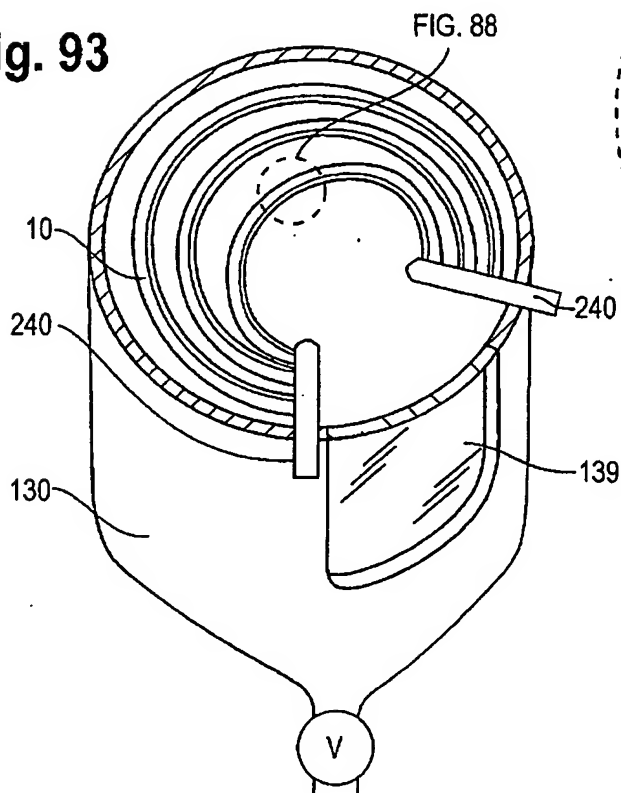
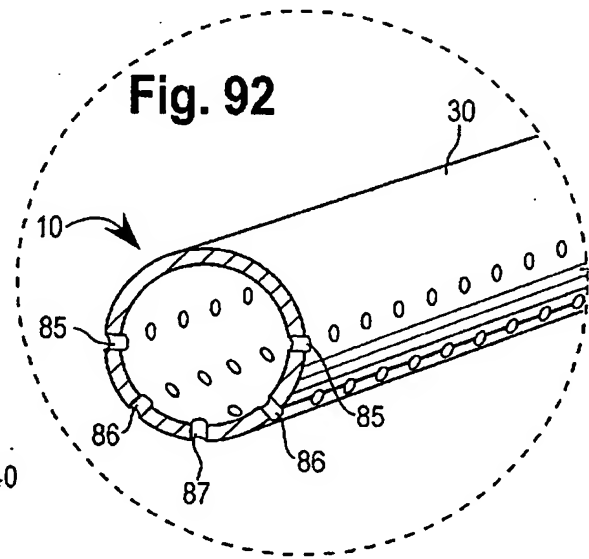
Method and Apparatus for Mixing Fluids
Hagen et al.
Atty Docket: VAST.001CP2

Fig. 88**Fig. 89****Fig. 90**

Method and Apparatus for Mixing Fluids
Hagen et al.
Atty Docket: VAST.001CP2

Fig. 91

27/28

**Fig. 93****Fig. 92**

Method and Apparatus for Mixing Fluids
Hagen et al.
Atty Docket: VAST.001CP2

Fig. 94

28/28

DISTRIBUTED CONTACTOR MODELING METHOD

